

SYRACUSE UNIVERSITY

Syracuse University Bulletin

**UNDERGRADUATE
COURSE CATALOG**

2010-2011



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Syracuse University Undergraduate Catalog 2010-2011

Welcome!

Welcome to Syracuse University's online course catalog. In this searchable resource you'll find detailed information about all of the schools, colleges, and hundreds of distinct degree programs offered by Syracuse University at every level, including descriptions of the faculty and related courses. You also will find descriptions of many special opportunities and entities that enhance academic life at SU, such as study abroad programs and centers for interdisciplinary learning.

Those of you already familiar with SU will find here the specifics that you seek and we invite those not yet familiar with us to explore the full breadth and depth of our academic offerings. Whatever your level of familiarity, we're sure that as you learn more about SU, you will find abundant reflections of our institutional vision to use our vast intellectual resources to transform the world for the better.



Eric F. Spina
Vice Chancellor and Provost

A handwritten signature in black ink that reads "Eric F. Spina". The signature is fluid and cursive, with a horizontal line underneath the name.

The Syracuse University Undergraduate Course Catalog and Graduate Course Catalog are published online annually in July and are primarily intended for use by currently enrolled students, faculty, and staff. The catalogs provide an overview of the University's curriculum, academic programs, facilities, and educational resources. They also include University academic policies, rules, regulations, and procedures; information about degree and certificate programs, including degree requirements; a listing and description of courses; and faculty information. Links to other related information are also included.

The information concerning academic requirements, courses, and programs of study contained in the publication does not constitute an irrevocable contract between the student and the University. The University reserves the right to change, discontinue, or add academic requirements, courses, and programs of study. Such changes may be made without notice, although every effort will be made to provide timely notice to students. It is the responsibility of the individual student to confirm that all appropriate degree requirements are met.

About Syracuse University

Syracuse University, located in the City of Syracuse in the center of New York State, is a private coeducational university comprising 12 undergraduate and graduate schools and colleges. Founded in 1870, the University today has an enrollment of 11,800 undergraduate and 4,800 graduate students representing all 50 states, more than 100 countries, and a variety of social and economic backgrounds.

A leader in quality graduate education, Syracuse combines the supportive network of a small college with the superior resources and enhanced opportunities needed for students to achieve their academic and professional goals. Students will learn from world-class faculty, assist in critical research, collaborate across disciplines, and immerse themselves in an active intellectual, cultural, and social community. As part of the University's expansive mission of Scholarship in Action, they also will have numerous opportunities to engage with the larger community, putting their learning to work on pressing local and global issues.

Syracuse University's picturesque main campus reflects its rich heritage, with an architectural mix of classic and contemporary academic buildings. The Hall of Languages and its early hillside companion, Crouse College, are listed in the National Register of Historic Places. At the heart of the campus is its sweeping "Quad"—an open expanse of lawn and walkways, and a popular gathering place for students throughout the day.

The University is chartered by the New York State Board of Regents and accredited by the Middle Atlantic States Association of Colleges and Secondary Schools. Accreditation for each of the professional colleges and schools accords with the regulations of the appropriate professional association. Syracuse has been a member of the prestigious Association of American Universities since 1967.

Tuition And Fees

Bursar Operations publishes the Syracuse University Bulletin: *Tuition, Fees, and Related Policies*, which provides information about tuition, room, meal plans, and other University fees. This publication is available online at <http://bursar.syr.edu>

Academic Calendar

The SU Academic Calendars through Summer 2012 are available at registrar.syr.edu/acadcalendars/index.html

Admissions And Financial Aid

Undergraduate

To receive information about undergraduate admissions, please contact the Office of Admissions, 100 Crouse-Hinds Hall, 900 South Crouse Avenue, 315-443-3611, or send an e-mail to orange@syr.edu. Visit our web site at admissions.syr.edu

Financial Aid

To receive information about financial aid, please contact the Office of Financial Aid and Scholarship Programs, 200 Archbold North, 315-443-1513, or send an e-mail to finmail@syr.edu.

Graduate

POST-SECONDARY EDUCATION REQUIREMENTS

To be considered for admission, an applicant to a graduate program at Syracuse University must provide official documentation of having earned at least a U.S. bachelor's degree or its equivalent from another country before enrolling at Syracuse. Some programs require a master's degree and in such cases this must be officially documented before enrollment as well (often a minimum of three years of study beyond the B.S. degree is required for students pursuing a doctoral degree). International applicants must have graduated from colleges or universities that are recognized by the national educational authorities of their home countries.

GENERAL REQUIRED MATERIALS

Individuals interested in applying to a graduate program offered at Syracuse University must complete an official graduate application and submit one copy of records of all previous postsecondary education. Contact the Registrar's Office of each higher educational institution that you attended and have one copy of your transcript(s) sent to Syracuse University. Most departments also require three letters of recommendation and scores from standardized aptitude tests. (The graduate application Program Requirements List for each school/college list the specific tests required by each academic unit.)

INTERNATIONAL STUDENTS

Those applicants whose primary language of instruction has not been English must take the Test of English as a Foreign Language (TOEFL). Each academic unit establishes acceptable scores and may also require other demonstrations of English language competence. Details are available from academic units directly.

An international applicant, if admitted, will need Syracuse University to issue a visa eligibility document to obtain a student visa. You must show evidence of having secured sufficient funding for at least the first year of graduate study. All financial documents must be written in English and valid within one year of the start of the semester. Please note that it is only possible to estimate the annual cost of attendance for graduate students because costs vary widely according to the number of credits taken as well as the lifestyle of the student.

Nonimmigrant Alien Students

Syracuse University is authorized under federal law to enroll nonimmigrant alien students.

Graduate Financial Assistance

Through its own and outside programs, Syracuse University provides financial assistance to many graduate students. Awards offered by the University, include Syracuse University Graduate Fellowships, Ronald E. McNair Postbaccalaureate Graduate Fellowships, Syracuse University Graduate African American Fellowships, Syracuse University Graduate Scholarships, and Graduate Assistantships (teaching, research, and administrative). In addition, there are a number of Graduate awards administered jointly by the Graduate School and individual departments. These include the Creative Writing Fellowship, the Elois K. Heaton Fellowship, the Cornelia Carhart Ward Fellowship, and the Whitney Young Fellowship.

Graduate students are encouraged to seek support for their studies from sources outside of the University as well. External graduate awards include such programs as Fulbright Scholarships, National Science Foundation, Ford Foundation, and Jacob Javits Fellowships.

Reference guides listing external award opportunities may be found in most major public libraries and academic libraries. Guides such as the Annual Register of Grant Support, Peterson's Grants for Graduate Study, The Grants Register, the Directory of Financial Aid for Women, and the Directory of Financial Aids for Minorities are particularly useful. The World Wide Web also contains a number of related resources.

More information about merit-based financial aid can be obtained by contacting academic departments. Need-based aid programs such as government guaranteed loans, College Work Study, and, for New York residents, the Tuition Assistance Program (TAP) are administered by the University's Office of

Financial Aid, 200 Archbold, Syracuse University, Syracuse NY 13244-1140; 315-443-1513.

See the Graduate School website for additional information and deadlines.

Hours Of Operation

ACADEMIC SEMESTER

Academic Buildings

Monday-Friday 7 a.m. to 10:30 p.m.

Weekends and Holidays open by arrangement

Check with the Dean's Office of each college for specific building's hours.

E.S. Bird Library

Monday-Thursday 8 a.m. to midnight

Friday 8 a.m. to 10 p.m.

Saturday 10 a.m. to 10 p.m.

Sunday 10 a.m. to midnight

Holidays closed

Extended hours adapted to semester schedule.

Click "Hours of Service" on the library's web site: library.syr.edu

Student Activities

Open by arrangement.

SUMMER SESSIONS

Academic Buildings

Monday-Friday 7:30 a.m. to 4:30 p.m.

Weekends and holidays open by arrangement

Check with the Dean's Office of each college for specific building's hours.

E.S. Bird Library

Monday-Thursday 8 a.m. to 10 p.m.

Friday 8 a.m. to 6 p.m.

Saturday 10 a.m. to 6 p.m.

Sunday noon to 8 p.m.

Student Activities

Open by arrangement.

Graduate, Law and other professional schools expand schedules during certain periods. Information on specific academic programs and activities can be verified by calling 315-443-1870.

University Facilities

Syracuse University students learn, study, and play among the 300 buildings on 900 acres that make up the campus. The University's 138-year history is

reflected in buildings across campus, with architectural styles ranging from Romanesque to modern. Fifteen buildings are listed in the National Register of Historic Places.

The University's Main Campus contains 170 buildings that are used for academics, University-operated housing, food services, and other auxiliary operations. South Campus includes the Manley Athletic Complex, Hookway playing fields, Goldstein Student Center, student housing, athletic facilities, and administrative and research facilities.

SU's 12 graduate and undergraduate colleges have their own distinct spaces on campus:

- The humanities programs of the College of Arts and Sciences is concentrated in the Hall of Languages, Huntington Beard Crouse Hall, and the Tolley Humanities Building. Facilities for instruction and research in the sciences are located in the Life Sciences Facility, Physics Building, Heroy Geology Laboratory, the Carnegie Library, and the Center for Science and Technology.
- The Maxwell School of Citizenship and Public Affairs is housed in Maxwell Hall and Eggers Hall.
- The College of Visual and Performing Arts comprises the School of Art and Design, Department of Drama, Setnor School of Music, Department of Transmedia, and Department of Communication and Rhetorical Studies. The School of Art and Design is located in Crouse College, the Comstock Art Facility, Smith Hall, The Warehouse in downtown Syracuse, and the Dorothea Ilgen Shaffer Art Building. The Department of Drama is located in the Regent Theatre Complex, which also houses Syracuse Stage, a regional equity theater company. The Setnor School of Music is located in Crouse College. The Department of Communication and Rhetorical Studies is located in Sims Hall. The University Art Collection is housed adjacent to the Joe and Emily Lowe Art Gallery in Sims Hall.
- The School of Architecture is located in Slocum Hall on campus and in The Warehouse in downtown Syracuse.
- The L.C. Smith College of Engineering and Computer Science is housed in Link Hall, the Center for Science and Technology, the Syracuse Center of Excellence Headquarters, Bowne Hall, and the Institute for Sensory Research located on South Campus.
- The College of Law is located in E.I. White Hall, Grant Hall, Barclay Law Library, and McNaughton Hall.
- The College of Human Ecology includes the Departments of Nutrition and Hospitality Management housed in Lyman Hall; the Department of Child and Family Studies, Department of Marriage and Family Therapy, and the Health and Wellness Program, located at 426 Ostrom Avenue; the Department of Sport Management, located at Drumlins Country Club; and the School of Social Work, located in Sims Hall. Administrative offices for Student Services are in Sims Hall, and the Dean's Office is located at 119 Euclid Avenue.
- The Martin J. Whitman School of Management is housed in the School of Management building, located at University Avenue and Marshall Street.
- The S.I. Newhouse School of Public Communications is located in a three-building complex along University Place, including the most recently constructed building, Newhouse 3.
- The School of Information Studies is located in Hinds Hall.
- The School of Education is housed in Huntington Hall, north of Main Campus. The school's Hoople and Gebbie clinics are located adjacent to Huntington Hall.
- University College is located at 700 University Avenue, between Marshall and Adams streets. Overseas, SU Abroad houses programs in Florence and London, along with other sites. Nationally, SU maintains a presence in New York City at the Joseph I. Lubin House, in Washington, D.C., at the Paul Greenberg House, and in California at the SU in LA offices. A variety of programs and events draw alumni, students, and friends to the centers.

Student Life Facilities

Students have a variety of housing options on Main Campus and South Campus. They can live in single rooms, double rooms, and suites in residence halls and apartments. Students can grab a meal or a snack at any of the five dining centers or several snack bars around campus. The Schine Student Center is the hub of activity on Main Campus, housing a food court, auditorium, gallery, lounges, meeting rooms, game room, and student organization offices. The Schine also houses the main campus bookstore, which also has several on campus branches. The Carrier Dome is home to sporting events, Commencement, and musical and cultural events. An international student center, LGBT resource center, counseling center, off-campus and commuter office, the Women's Building, Watson Theater, Robert B. Menschel Media Center, and several other facilities accommodate student services and extracurricular programs.

Recreation facilities abound throughout campus. Archbold Gymnasium, Flanagan Gymnasium, the Women's Building, Ernie Davis Hall, and Marshall Square Mall contain fitness centers, swimming pools, gymnasiums, exercise rooms, dance studios, and courts for racquet sports. Manley Field House also is available for indoor recreation and student activities. Outdoor tennis courts and playing fields are located on both Main and South campuses. The Goldstein Student Center on South Campus serves Skytop and Slocum Heights students. The Tennity Ice Pavillion offers skating rinks for recreational and intramural skating sports. Hendricks Chapel, on Main Campus, sits majestically on the Quad as the focus of programs of the dean of the chapel. The St. Thomas More Chapel serves Roman Catholic students, and the Winnick Hillel Center for Jewish Life serves Jewish students.

Auxiliary Operations

Auxiliary service facilities include University Health Services and the Goldstein Alumni and Faculty Center. University administrative functions are conducted in Crouse Hinds Hall, the Women's Building, Steele Hall, the Schine Student Center, and at 111 Waverly Avenue on Main Campus and in the Skytop Administrative Services Building and 621 Skytop Road on South Campus.

Academic Computing Services and facilities for administrative data processing are located in the new Green Data Center and Machinery Hall, with administrative offices located in the Center for Science and Technology.

The State University College of Environmental Science and Forestry (ESF) is situated on its own campus, adjacent to Main Campus.

Library

On the web at library.syr.edu, the Syracuse University Library supports teaching, learning, and research at the university by providing a wide array of on-site and online resources and associated research support services. Library hours are extensive, with 24-hour access in Bird Library from Sunday through Friday during the academic year. Libraries are equipped with wireless access, laptops for loan, and provide a variety of study spaces, including group study rooms, individual study carrels, and a quiet reading room. Librarians and library staff provide both in-person and web-based services via chat, email, Facebook, and other venues. Faculty use the library's course reserve service to make supplementary readings available online and in print.

The SU Libraries include:

- E.S. Bird Library, which is home to a new Learning Commons, Pages (café), library administrative offices, and the Special Collections Research Center;
- The Science and Technology and Mathematics libraries, both housed in the Carnegie Building on the Quad;
- The Geology Library, adjacent to the Geology department in Heroy, and;
- The Architecture Reading Room, located in Slocum Hall.

Other separately administered campus libraries include the Martin Luther King, Jr. Memorial Library (African-American Studies Department), the H. Douglas Barclay Law Library (College of Law), and Moon Library (SUNY College of Environmental Science and Forestry). All library collections are represented in the Library's online catalog on the web.

The library's diverse collections in all university academic disciplines include more than 3.1 million printed volumes, over 16,000 online and print journals, as well as extensive collections of maps, images, sound and video recordings, music scores, microforms, rare books and manuscripts. An interlibrary loan service delivers needed materials not owned by SU Library. Library workstations, including Macs and PCs, are equipped with standard campus software applications; also available are specialized software for multimedia production and adaptive technologies for disabled users. Web resources are accessible to SU-affiliated users from any location, including residence halls, off-campus apartments, and international centers.

Information Technology And Services

Center for Science and Technology, 315-443-2677

ITS.syr.edu

help@syr.edu

Students at Syracuse University have access to a broad range of computing and information technology services. The services include high-speed wired and wireless Internet connections in buildings across campus, including wireless in all residence halls; high-tech, multimedia classrooms and collaborative spaces; e-mail; web conferencing; and campus computer labs equipped with the latest software technologies used in academic coursework, including statistical analysis, database management tools, and multimedia applications. Students also have access to space on the central computing system for file storage and for creating personal Web pages. More than 2,800 classes are supported via Blackboard, an online learning environment that enables anytime, anywhere student engagement. MySlice provides every student a secure, online gateway to all essential University resources including the course catalog, class registration and schedules, grades, transcripts, and accessing financial aid, tuition, housing and meal plan information and services. Additional computing resources for specific academic programs and research activities are available through the University's schools and colleges. SU is a leader in developing and using World Wide Web technologies and is a member of the Internet 2 consortium. SU's new Green Data Center is a showcase of world-class innovations in advanced energy-efficient information technology and building systems, making it one of the world's "greenest" computer centers.

Getting help

In addition to maintaining the University's computing and network services, Information Technology and Services (ITS) provides students with a variety of support options:

- General information about SU computing and services offered by ITS can be found by searching the ITS public web site at its.syr.edu.
- Help with NetID account issues is available on the ITS NetID Services web page at netid.syr.edu.
- Students, faculty and staff can visit one of the ITS Service Centers. Center locations, hours and services are available on the ITS web site at its.syr.edu/support/student.cfm.
- Students, faculty and staff can call the ITS Service Centers at 315-443-2677, or e-mail help@syr.edu.
- Online support information is available at answers.syr.edu.

Health Services

Located on campus at 111 Waverly Avenue, Syracuse University Health Services (SUHS) specializes in college health and serves the health care needs of SU and SUNY ESF students. SUHS provides student-centered ambulatory health care. On campus services include:

- Office visits
- Allergy injections
- Immunizations, vaccines
- Laboratory
- Ambulance & nonurgent medical transport
- Travel medicine
- Nutrition Counseling
- Pharmacy
- Health education
- Public health monitoring and oversight

Office visits are provided by appointment. To make an appointment, call 315-443-9005.

Xray services and referral for specialty consultation can be arranged by the medical provider.

Confidentiality

Medical records are maintained for all students and all information is kept confidential and protected by the Health Insurance Portability and Accountability Act. Protected health information can ONLY be released with written consent of the patient.

Ambulance

Syracuse University Ambulance (SUA) provides basic life-support-level emergency medical and other services to the SU and SUNY ESF communities. For ambulance service, call 711 from a campus phone, #SU from a cell phone, or 315-443-4299.

Health Insurance

The University strongly recommends that students carry health insurance to cover expenses not covered by the Health Fee and medical expenses incurred outside of Health Services such as specialized care, emergency room care, and hospitalization. Students should always carry their health insurance information with them. For students who do not have a health insurance plan or are not adequately covered, the University offers a student health insurance plan designed specifically for university students. For more information, call 315-443-2668.

Immunization Requirements

All students are required to provide the following immunization information:

- Proof of immunity to measles, mumps, and rubella
- A completed response related to meningococcal meningitis vaccine indicating that the student has received and reviewed related information, and that he or she has either been immunized within the preceding 10 years or has opted not to obtain immunization against meningococcal disease.

Additional information is available at students.syr.edu/health.

Career Services

Suite 235, Schine Student Center
(315)443-3616
Careerservices.syr.edu

Career Services is here to help students design their college experience and apply it to the world of work. From deciding on a major to searching for internships to preparing for interviews, Career Services provides individualized career guidance. Additionally, the office hosts large-scale events and programs that connect students with employers and SU alumni in their desired career fields.

Students are encouraged to utilize both the central Career Services office in the Schine Student Center, as well as the career office in their home school/college. Visiting both offices early in their college careers is recommended.

A brief description of services:

Career advising and guidance. Through advising sessions, formal assessments, and informational resources, the office's career counselors can help students gain clarity in their academic and career interests. For students who know exactly what field they wish to pursue, counselors can assist in strategizing the internship/job search process. They can also help students build application documents such as resumes and cover letters, and strengthen interview skills. One special service provided by the office is the registration of internships for academic credit (discussed in more detail in Elective Internships).

Alumni Networking. The Mentor@SU program is a valuable resource for students as they explore careers and break into the working world. Mentor@SU matches up current students with SU alumni mentors in their particular career fields. Each summer, SUccess In The City networking events allow students to meet with mentors and other established SU alumni in several geographic locations across the country, including New York City, Boston, Los Angeles, Washington D.C., and Chicago.

Employer Connections. Each semester, Career Services hosts large-scale career fairs to connect students with employers in their desired industries. Typically, more than 100 employers attend these fairs, seeking to hire for internship and full-time positions. Additionally, Career Services manages OrangeLink, a searchable database which stores all of the internship and job postings submitted to SU from employers. OrangeLink, accessible to all SU students and alumni, is a particularly effective way to identify and apply for relevant positions. Career Services also regularly provides workshops for classes, student organizations, residence halls, and other groups on campus.

For more information about Career Services, or to schedule an appointment with a career counselor, please call (315)443-3616.

Syracuse University Internship Opportunities

113 Euclid Avenue, 315-443-4271
<http://careers.syr.edu/internships.htm>

The Syracuse University Internship Program (SUIP) is an academic unit of the University. It is responsible for arranging local and national internships that carry academic credit, and are offered each semester and during summer sessions.

SUIP is not a degree program, and does not offer its own curriculum. Rather, SUIP facilitates internships in most career areas, and makes information about these available to graduate and undergraduate students from across the University. Students may participate in the program subject to the provisions and regulations of the college in which they are enrolled.

The Syracuse University Internship Program is staffed by students supervised by a full-time program director, a full-time student advisor, and a half-time administrative assistant. SUIP student coordinators serve in a peer advisor capacity, assisting students with the selection of internships and assisting the non-student staff to monitor intern progress during the field experience. Interns are encouraged to maintain contact with the SUIP staff throughout the field experience to discuss their progress.

THE PROGRAM

SUIP internships provide students with opportunities to apply what they have learned in the classroom, explore career options, develop specific career skills, and become involved with community service.

Each intern is guided by a faculty sponsor, a faculty member who has expertise relevant to the internship. The sponsor helps the student set goals for the internship and decide on the method of evaluating the experience. Interns may be required to keep journals, complete portfolios, or work on projects and papers. The faculty sponsor also awards the grade for the internship.

Supervisors in participating organizations guide and monitor interns at the internship sites. The supervisors introduce the interns to the organization, explain operating procedures, discuss projects and assignments, answer questions, and provide feedback concerning the progress of the interns. At the end of the internship, the supervisors evaluate the interns' work. This becomes part of the faculty member's final evaluation of student achievement.

INTERNSHIP OPPORTUNITIES

SUIP offers internships in the fields of arts, business, communications, computer and information science, education, environmental science, government, law, medical and health sciences, museology, public affairs, and social services. In addition, SUIP offers the Independent Internship Option, which permits students to develop their own internships, each of which must be approved by the faculty sponsor and the director of SUIP. Some students structure independent internships in the Syracuse area during the semester; others use summer sessions either to take independent internships in their home towns, or to participate in an internship elsewhere in the United States.

Once accepted for an internship, students must complete a learning proposal that describes the goals and activities planned for the internship, and register for credit. The specific role of the intern varies with each host organization, depending upon the student's goals, objectives, and skills and the organization's needs and resources. Interns usually assist organization staff members with assignments, serve as administrative aides, or work on special projects designed to be completed during the internship.

ACADEMIC CREDIT

All SUIP internships are offered for elective academic credit at the rate of 1 credit for each 45 hours of fieldwork. During a regular 15-week semester, an intern may earn three credits by working approximately 9 hours a week. During summer sessions, work schedules are adjusted to meet the credit requirements. Students may register for fewer or more than 3 credits, depending on the advice of their faculty advisors and the specific requirements of the college or school in which they are enrolled.

Work schedules are arranged by the interns and their supervisors. The total number of credits awarded depends upon the nature of the tasks and responsibilities involved as well as the number of hours worked in the field placement. During fall and spring semesters, full-time undergraduate students may include internship course credits as part of their regular course load, which allows up to 19 credits without incurring additional tuition charges. Undergraduates accepted for summer sessions internships pay tuition at the rate set for their division.

All graduate students and all University college students taking internships for credit pay tuition at the rates set for their divisions. Interns must be registered during the semester or summer session in which their internships take place. SUIP cannot grant retroactive credit.

APPLICATION

Students are advised to discuss the appropriateness of an internship with their faculty advisers before applying for SUIP internships. Applications can be made during the preregistration period before, and during the first three weeks of, the semester in which the internship is to be taken. Students are encouraged to apply during the preregistration period, since a wider choice of internships is available at that time. SUIP application periods for local internships are announced in the campus media. Students applying for independent or national internships are advised to initiate arrangements in the semester before the internship. Final selection of interns is made by supervisors from the host organizations.

For further information about local and national internship opportunities, program policies, and application and registration procedures, contact the SUIP office, or visit the SUIP web site, internships@syr.edu.

STUDENT PARTICIPATION

Current projects are listed on the web at ilearn.syr.edu/. Students are invited to look for those that interest them and for which they qualify. (The qualifications or prerequisites are set by the sponsoring faculty, not the URP office. Some projects may have no prerequisites, while others may specify a number of them.) Having identified a project, the student discusses it and the advisability of his or her participation with the URP director and the sponsoring faculty member. If all parties are in agreement, the student may enroll.

ACADEMIC CREDIT

URP is neither a degree nor a curricular program. Rather, it is an office that facilitates linking qualified, interested students with faculty-generated projects in a credit-bearing context. Credit arrangements vary according to project needs and student desires. Generally, three credits a semester is appropriate, but as few as one and as many as six credits are possible. In no case, however, may a student earn more than a total of 24 credits through URP courses over the college career. All credits earned will be counted as arts and sciences credit, except where independent study numbers are used in conjunction with non-arts and sciences departments.

ENROLLMENT

Once all relevant parties approve a student's participation, enrollment takes place in one of two ways:

1. Independent Study Courses

Where deemed appropriate, students may enroll through an all-University independent study course (numbered 290, 490, etc.) carrying the individual department's designation.

2. URP Courses

The following two courses have been instituted to facilitate student enrollment through this program. The choice between these courses is left to the discretion of the faculty sponsor and URP director.

URP 250

URP 450

Enrollment normally takes place at the beginning of each semester, although—by special permission—enrollment during any given semester may also be possible.

GRADING AND COURSE EVALUATION

Normally, enrollment entails the A-F grading option, although—by special petition—the pass/fail option may be used. Special course-evaluation forms are submitted independently by faculty sponsors and student participants as a standard procedure.

Interdisciplinary And Specialized Study

Syracuse University has long promoted the development of special programs and research groups, many of an interdisciplinary nature. Not only does Syracuse offer a wide array of interdisciplinary programs of study, but many individual courses provide students with considerable flexibility in developing their academic programs. Students enrolled in certain programs at Syracuse may also take selected courses at one of the two SUNY institutions adjacent to the campus, the College of Environmental Science and Forestry and SUNY Upstate Medical University. Detailed descriptions and requirements of these programs are given in the appropriate colleges' and schools' listings in this catalog.

The interdisciplinary network at Syracuse also encompasses faculty members who serve in dual capacities, holding joint appointments in more than one department within the University or at other institutions. For example, some School of Education faculty members regularly instruct classes in the Maxwell School of Citizenship and Public Affairs and vice versa. Other faculty members hold external appointments in addition to their posts at the University.

Graduate Study

Generally, graduate students select a program of study within one academic unit that leads to a degree conferred by the Graduate School. Students may also choose to pursue formal joint-degree programs. In such cases, the student is enrolled in more than one school or college. A dually enrolled student must meet the major requirements in each school. Examples of dual programs are the law/public administration (J.D./M.P.A.) program, the law/library science (J.D./M.S.) program, the law/business administration (J.D./M.B.A) program., and the law/cultural foundations of education (J.D./M.S) program.

Similar in concept to joint degree programs are concurrent degree programs, which also allow students to pursue programs of study in more than one discipline simultaneously, often with fewer total credit requirements than the two separate degrees. This plan leads to two degrees, one in each program of study. Concurrent degree arrangements are also available to Syracuse University graduate students and SUNY College of Environmental Science and Forestry students who wish to combine the study of public administration, law, management, education, or public communications with study in environmental science and forestry.

Similarly, The Master of Public Health (M.P.H) degree is a collaborative program, sponsored jointly by SUNY Upstate Medical University (UMU) and Syracuse University (SU). Participating colleges at Syracuse University include the Maxwell School of Citizenship and Public Affairs, the College of Human Ecology, L.C. Smith College of Engineering and Computer Science, and the College of Law.

Under the terms of a formal Scholar Exchange Program, Syracuse graduate students may avail themselves, for up to one year of study, of classes offered by Cornell University or the University of Rochester in addition to the courses and programs offered by Syracuse University.

The CASE Center

New York State Center for Advanced Technology (CASE Center) is funded by the New York State Foundation for Science, Technology and Innovation to support innovative, interdisciplinary research in complex information intensive systems. The mission of CASE is to catalyze growth in the high-technology economy of New York State by fusing technical competency with industry-specific knowledge to advance applications of predictive analysis, monitoring and/or control of complex behavioral, information and communication systems. CASE's current key technical focus areas range from social behavior to financial transactions, including data fusion, data mining, control design, systems modeling, systems security and assurance, bioinformatics, intelligent computing, sensor network/management. These focus areas expand as CASE engages new faculty and industry partners. In addition, CASE provides project management for university-industry collaboration in research and development; brings together interdisciplinary teams from industry and academia for brainstorming and networking to foster and spawn innovation; identifies funding opportunities and assists university-industry teams in developing and delivering successful proposals and projects.

CASE serves as an access point for the private sector to engage the University, supporting co-op and internship programs for students as well as research and development projects. Through CASE, graduate students with a variety of backgrounds can work with the country's most advanced information research and technology. In addition to close collaborations with faculty scientists and engineers, CASE offers students opportunities to gain practical real-world experience working directly with leading private sector companies in a wide range of industries. For students interested in entrepreneurship, CASE also offers a unique chance to participate first-hand in the launch of high-potential start-up companies through its on-campus incubator. A CASE experience can significantly enhance students' professional development and career options.

The Graduate School

Sandra N. Hurd, Acting Dean
Gabrielle Chapman, Associate Dean
Eileen Stempel, Associate Dean

207 Bowne Hall, 315-443-2543
gradsch.syr.edu
grad@syr.edu

Graduate study and research have been recognized as a critical piece of Syracuse University's mission since its inception in 1870. Today, every school and college at Syracuse offers graduate study, and the University awards approximately 1,700 master's degrees and certificates of advanced study and 150 doctoral degrees annually. A complete listing of graduate degree programs can be found in the Academic Offerings Tab section in this catalog.

Individual graduate programs are administered by departments or interdisciplinary committees and are subject to approval by the appropriate schools and colleges and by the University Senate. These policies and standards are administered by the Graduate School. All postbaccalaureate degrees are awarded through the Graduate School, with the exception of the J.D. degree, which is awarded through the College of Law.

Graduate students will learn from a full-time faculty of more than 800 scholars, many of them internationally or nationally recognized in their field, and will assist faculty both in the classroom and with important research initiatives.

All Syracuse University graduate degree programs, with the exception of law, are organized under the auspices of the Graduate School. Applications for admission are submitted to the Graduate School, which also confers degrees upon graduation. The graduate degree programs themselves, however, are offered by faculty of the University's 12 academic schools and colleges. This unique organizational structure fosters intellectual collaboration and exploration across the disciplines while at the same time recognizing the highly specialized nature of graduate-level academic work.

Requests for information about graduate programs should be directed to the specific academic units offering those programs. Questions about University-wide policies should be directed to the Graduate School.

Syracuse University Graduation Rate

In compliance with the federal Student-Right-to-Know and Campus Security Act, and regulations of the U.S. Department of Education, Syracuse University provides the following information to current and prospective students: Of the cohort of full-time degree-seeking undergraduate students who first enrolled at Syracuse University in fall 2003, 83.4 percent had earned their bachelor's degrees as of August 2009. These beginning and end dates comprise 150 percent of the normal length of full-time study (4 years) needed to complete a typical undergraduate degree program. While this calculation meets the act's requirements for determining a graduation rate, Syracuse University recognizes that many students for diverse reasons are unable or choose not to complete their degrees in a continuous sequence of full-time enrollment and, therefore, that the rate may not accurately reflect the commitment and achievement of its students. Moreover, the act's stipulation that the graduation rate be that of the cohort of entering full-time students leaves out the significant population of part-time students who constitute an important part of the Syracuse University community.

Adjunct Faculty And Teaching Assistants

Adjunct Faculty By School, College Or Division

A & S - Curriculum/Instruction	4
A & S - Women's Studies	3
A & S - Writing Program	40
African-American Studies	3
Architecture	7
Art & Music Histories	3
Arts & Sciences - Honors	13
Arts & Sciences-Dean	1
BMC Engineering	4
Biology Research Lab	2
COHE- Health & Wellness	1
COHE- School of Social Work	13
COHE-Child and Family Studies	5
COHE-Hospitality Management	3
COHE-Marriage & Family Therapy	2
COHE-Nutrition & Hosp Mgt	8
COHE-Sport Management Program	1
CVPA-Drama	22
CVPA-Foundation	9
CVPA-Museum Studies	2
CVPA-School Of Music	41
CVPA-Warehouse	4
Civil & Envirnmтал Engineering	4
Communication Sciences & Dis.	2
Communication/Rhetorical Study	3
Computer & Information Science	11
Core 1 Syracuse Course Program	1
Core 3 Syracuse Course Program	6
Counseling & Human Services	4
Cultural Foundations Ed Curric	5
Department of Art at Comart	5
Department of Art at Shaffer	5
Economics	4
Ed-Teach & Ldrship Math	1
Ed-Teach & Ldrship Music	2
Ed-Teach & Ldrship Sci Teach	2
Ed-Teaching And Leadership	16

Elect & Computer Engineering	1
English	4
Exercise Science	12
Geography	1
Higher Education	1
History	1
Information Studies-Dean	30
International Relations	2
International Relations-Wash DC	3
Languages, Lit & Linguistics	35
Law College	33
Mathematics	3
Mech and Aerospace Engineering	1
Philosophy	3
Psychology	2
Psychology Service Center	4
Public Administration	4
Public Affairs	4
Public Communications	46
Reading & Language Arts	2
Religion	1
SU Abroad - Italy	5
SUCE BPS	7
SUCE Gen Admin Student Support	2
SUCE Program Dev/Dist. Edu	4
School of Design	13
School of Management	22
Sensory Research	1
Sociology	4
Tepper in NYC Program	14
Transmedia Studies	10

Teaching Assistants By School, College Or Division

A & S - Curriculum/Instruction	2
A & S - Women's Studies	3
A & S - Writing Program	18
African-American Studies	10
Anthropology	18
Architecture	42
Art & Music Histories	4
BMC Engineering	9
Biology Research Lab	31
COHE-Child and Family Studies	15
COHE-Hospitality Management	1
COHE-Marriage & Family Therapy	2
COHE-Nutrition & Hosp Mgt	5
CVPA-Foundation	7
CVPA-School Of Music	16
CVPA-Visual Comm	1
Chemistry	59
Civil & Environmental Engineering	10
Communication Sciences & Dis.	1
Communication/Rhetorical Study	11
Computer & Information Science	47
Counseling & Human Services	6
Cultural Foundations Ed Curric	8

Department of Art at Comart	13
Department of Art at Shaffer	5
Earth Sciences	17
Economics	30
Ed-Teaching And Leadership	31
Elect & Computer Engineering	2
English	42
Exercise Science	16
Geography	14
History	22
Information Studies-Dean	11
Languages, Lit & Linguistics	27
Mathematics	55
Maxwell Dean's Office	6
Mech and Aerospace Engineering	23
Philosophy	23
Physics	34
Political Science	33
Psychology	22
Psychology Service Center	1
Public Communications	10
Reading & Language Arts	7
Religion	19
SU Abroad - France	1
School of Design	3
School of Management	28
Science Teaching	2
Social Science	4
Sociology	15
Supportive Services - General	1
Transmedia Studies	17

Syracuse University Roster

University Officers

Each officer's year of appointment to the University staff is given in parenthesis.

Nancy Cantor, B.A., Ph.D. (2004)

Chancellor and President

Eric F. Spina, B.A., M.A., Ph.D. (1988)

Vice Chancellor and Provost

Thomas J. Walsh, B.A., M.F.A. (1984)

Executive Vice President for Advancement and External Affairs

Elizabeth Breul O'Rourke, B.A., M.P.A. (1983)

Vice President, Board of Trustees

Thomas V. Wolfe, B.A., M.Div., Ph.D., (1990)

Senior Vice President and Dean of Student Affairs

Louis G. Marcoccia, B.A., M.S., C.P.A., Ed.D. (1975)

Executive Vice President and Chief Financial Officer

Academic Officers

Donald Saleh, B.S., M.S. (2001)

Vice President for Enrollment Management

Suzanne Thorin, B.M., M.M., M.L.I.S. (1969)

University Librarian and Dean of Libraries

Gina Lee-Glauser, B.S., M.S., Ph.D. (2001)

Vice President for Research

Schools and Colleges

School of Architecture

Mark Robbins, Dean

College of Arts & Sciences

George Langford, Dean

School of Education

Douglas Biklen, Dean

L.C. Smith College of Engineering & Computer Science

Laura Steinberg, Dean

College of Human Ecology

Diane Lyden Murphy, Dean

School of Information Studies

Liz Liddy, Dean

College of Law

Hannah Arterian, Dean

Martin J. Whitman School of Management

Melvin Stith, Dean

Maxwell School of Citizenship and Public Affairs

Michael Wasylenko, Interim Dean

S.I. Newhouse School of Public Communications

Lorraine Branham, Dean

College of Visual and Performing Arts

Ann Clarke, Dean

University College

Roberta Jones, Acting Dean

Student Rights (FERPA)

Syracuse University fully complies with the Federal Family Educational Rights and Privacy Act (FERPA) and with procedures recommended by the American Association of Collegiate Registrars and Admissions Officers. This legislation gives students the following rights with respect to their education records:

I. The right to inspect and review the student's education records within 45 days of the day the University receives a request for access

Students should submit to the University Registrar (106 Steele Hall, Syracuse University, Syracuse NY 13244-1120) written requests that identify the record(s) they wish to inspect. The University Registrar will make arrangements for access and will notify the student of the time and place where the records may be inspected.

II. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading

Students may ask the University to amend a record that they believe is inaccurate or misleading, although this does not include challenges to the accuracy/fairness of grades in courses or any other assessment of academic performance. They should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the University decides not to amend the record as requested by the student, the University will notify the student of the decision, of his or her right to a hearing regarding the request for amendment, and of the hearing procedures. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

III. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. Specific exceptions include:

A. School officials with legitimate educational interest: "School official" means:

1. a person employed by the University;
2. a person, company, or agency with whom the University has contracted for a service; or
3. a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

"Legitimate educational interest" means an educationally related purpose which has a directly identifiable relationship to the student involved and is consistent with the purposes for which the information is maintained. A school official has a legitimate educational interest if, in the judgment of the data custodian responsible for requested information, the official needs to review an education record in order to fulfill his or her professional responsibility. The information sought and provided must be pertinent to and used within the context of official University business and not for a purpose extraneous to the official's area of responsibility. Release of a student's education record to a school official having legitimate education interest does not constitute institutional authorization to transmit, share, or disclose any or all of the information to a third party, within or outside the University.

B. Officials of another school in which a student seeks or intends to enroll, upon the request of such officials.

C. Parents of a dependent student as defined by the Internal Revenue Service. A “parent” is a parent, guardian, or someone acting as a parent who meets the IRS standard. Undergraduates at Syracuse University are assumed to be dependents of the parent(s) they list on application materials unless they prove otherwise. Divorced or separated parents will be provided equal access unless the University is provided with evidence of a court order, state law, or legally binding document that specifically revokes those rights. Graduate students will be presumed to be independent of their parent(s) unless the parent(s) provide their most recent IRS tax return with evidence to the contrary.

D. Appropriate parties in connection with an emergency if knowledge of the information is necessary to protect the health or safety of the student or other individuals.

(Note: Students should refer to their individual school/college(s)’ policies concerning parental notification in cases of academic misconduct and academic performance issues.)

IV. The right to file a complaint with the U.S. Department of Education concerning alleged failures by Syracuse University to comply with the requirements of FERPA

The office that administers FERPA is

The Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington DC 20202-5920
Phone: 1-800-872-5327

V. The right to prevent disclosure of personally identifiable information that Syracuse University has designated as “Directory Information.”

At its discretion, Syracuse University may provide “directory information” in accordance with the provisions of FERPA. Directory information is defined as that information which would not generally be considered harmful or an invasion of privacy if disclosed. Designated directory information at Syracuse University includes the following:

Name*
Current address and phone number
Permanent address and phone number
SU email address*
Dates of attendance
Full/part-time status
Class/level*
SU school/college(s)*
Majors(s)/degree program(s)
Degree(s) earned and date(s)
Academic awards and honors
Prior postsecondary institutions attended
Athletic participation

* Asterisked items are displayed in the University’s online directory

Students may block the public disclosure of directory information (all or in part) by filing a Request to Prevent Disclosure of Directory Information form with the Office of the Registrar, 106 Steele Hall. Although the initial request may be filed at any time, requests to prevent disclosure will be honored by the University until removed, in writing, by the student. To prevent asterisked items from appearing in the University’s annual printed telephone directory, students must file the request form within the first two weeks of classes in the fall semester. Requests filed after this deadline in the fall semester will remove designated directory information from the online directory and in subsequent years’ printed directories.

Students who select an option to prevent disclosure of some, but not all, directory information, additional action must be taken to prevent release of information regarding athletic participation and for announcements of academic achievements to their hometown newspaper(s) and/or printing in the annual Register of Graduates. Filing of a Request to Prevent Disclosure will also prevent information from loading to Blackboard, an online course management system used in many SU classes, and may make a student ineligible for SUmail, SU’s student e-mail system. Students who are required to use Blackboard for a class or multiple classes, additional action must be taken. The Registrar’s Office will provide information about these additional steps. Instead of SUmail, those who file a Request to Prevent Disclosure that includes their SU e-mail address will be provided an official SU e-mail account in the University’s administrative e-mail system.

Students should very carefully consider the consequences of a decision to prevent disclosure of Directory Information. Regardless of the effect upon students, the University assumes no liability as a result of honoring instructions that such information be withheld. Syracuse University assumes that a student’s failure to specifically request blocking access to any element of directory information constitutes approval for disclosure. Questions about FERPA, students’ privacy rights, and Syracuse University’s compliance procedures may be directed to the Office of the Registrar, 106 Steele Hall, Syracuse University, Syracuse, NY 13244-1120, 315 443-2422.

Individual Responsibility

Under Article 156 of the New York State Penal Code, criminal sanctions are imposed for offenses involving computers, software, and computer data. The offenses include unauthorized use of a computer, computer trespass, computer tampering, unlawful duplication, and unlawful possession of computer-related material. Improper or unauthorized access to, or release or manipulation of, any student record in such form is included within those offenses. All computers, software, data, business records, and student records of the University in any form, electronic or paper, belong to the institution. Any person committing an offense with respect to them may be subject personally to criminal sanctions and other liability. The University will cooperate with law enforcement authorities in prosecuting all persons who commit any such offense.

Nondiscrimination And EEO Policy

Syracuse University is an equal-opportunity, affirmative-action institution. We do not discriminate on the basis of race, creed, color, gender, national origin, citizenship, religion, marital status, age, disability, sexual orientation, gender identity or expression, or status as a disabled veteran or a veteran of the Vietnam era or to any extent discrimination is prohibited by law. This nondiscrimination policy covers admissions, employment, and access to and treatment in University programs, services, and activities.

Syracuse University welcomes people with disabilities and in compliance with Section 503 and 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act does not discriminate on the basis of disability. Services for students with disabilities are coordinated by the Office of Disability Services, Room 309, 804 University Avenue, 315-443-4498 (VOICE), 315-443-1371 (TDD).

Syracuse University supports equal opportunity in compliance with Title VI and Title VII of the Civil Rights Act of 1964 and Title IX of the Education Amendments of 1972, and does not discriminate on the basis of race, color, national origin, or gender.

Questions about any of the University's equal-opportunity policies, including compliance with Title VI, Title VII, and Title IX, may be directed to Neil B. Strodel, Associate Vice President and Chief Human Resources Officer, Office of Human Resources, Skytop Office Building, Syracuse University, Syracuse NY 13244-5300; telephone 315-443-4224.

Undergraduate Rules And Regulations

This is the complete and official version of the academic rules and regulations governing students effective for the 2010-2011 academic year. It supersedes all previously published versions of these rules. "General University Regulations," "University Rules," regulations that apply to general student conduct and behavior, and a complete guide to student rights and responsibilities can be found in the Syracuse University Student Handbook, available at the Schine Student Center. This information can also be accessed online at <http://www.syr.edu/currentstudents/publications/pdfs/SU-StudentHndbk-low.pdf>

All-University Disclaimer

The information concerning academic requirements, courses, and programs of study contained in this publication does not constitute an irrevocable contract between the student and the University. The University reserves the right to change, discontinue, or add academic requirements, courses, and programs of study. Such changes may be made without notice, although every effort will be made to provide timely notice to students. It is the responsibility of the individual student to confirm that all appropriate degree requirements are met.

Institutional Accreditation

Syracuse University is chartered by the New York State Board of Regents and accredited by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia PA 19104; 215-662-5606. Professional accreditation for each of the professional colleges and schools accords with the regulations of the appropriate professional association. For further information, contact the dean's office of each school or college.

Compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990

Syracuse University is committed to compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. These legislative acts mandate in general that no otherwise qualified person with a disability in the United States shall be excluded from participation in, be denied benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance solely by reason of being disabled. Students who may need assistance should contact the Office of Disability Services, Room 309, 804 University Avenue; 315-443-4498, 315-443-1371 (TTY), <http://disabilityservices.syr.edu/>

Academic Advising

Academic advising is an essential component of a Syracuse University education. The University is committed to providing the individual advice and assistance that students need at every step throughout their degree programs. A successful system of academic advising is highly dependent upon a shared commitment of students, faculty, and staff to the process and the availability of timely, accurate information.

Students are responsible for scheduling, preparing for, and keeping advising appointments; for seeking out contacts and information; and for knowing the basic requirements of their individual degree programs. Students bear the final responsibility for making their own decisions based on the best information and advice available and, ultimately, on their own judgment.

Advisors are responsible for developing a thorough knowledge of the degree requirements within the students' program of study and a working knowledge of academic options and resources throughout the University. Advisors are expected to involve students by encouraging them to ask questions, gather information, and explore options so that they may develop a meaningful academic plan. Advisors will be available to students on a regular basis, monitor their advisees' progress, assist in considering career options, and make appropriate referrals to other campus offices.

The University, through its schools and colleges, pledges to support a campus-wide network of faculty, staff, and student peer advisors by providing them with a clear and firm foundation of information regarding policies, procedures, resources, and programs. The University is committed to help faculty and staff develop effective advising skills, to evaluate its system of academic advising and support services, and to make improvements where necessary. The University also acknowledges the important contribution advisors make to the community through appropriate recognition within the institutional reward system.

I. Policies (Sec.1.0-3.0)

1.0 Academic Standards

At Syracuse University, academic integrity is expected of every community member in all endeavors. Academic integrity includes a commitment to the values of honesty, trustworthiness, fairness, and respect. These values are essential to the overall success of an academic society. In addition, each member of the university community has a right to expect the highest standards of academic integrity from all other community members. An individual's academic dishonesty threatens and undermines the central mission of the University. It is unfair to other community members who do not cheat, because it devalues efforts to learn, to teach, and to conduct research. Academic dishonesty interferes with moral and intellectual development, and poisons the atmosphere of open and trusting intellectual discourse. Syracuse University's academic integrity policy and procedures are administered by the Academic Integrity Office in the Division of Academic Affairs, and all schools and colleges.

1.0.1 ACADEMIC INTEGRITY EXPECTATIONS

Academic integrity is violated by any dishonest act which is committed in an academic context including, but not limited to the following:

1.0.1.1 Use of Sources Plagiarism is the use of someone else's language, ideas, information, or original material without acknowledging the source. Examples of plagiarism:

1. Paper is downloaded from an Internet source and/or obtained from a paper mill;
2. paper contains part or all of the writings of another person (including another student), copied without citation;
3. paper contains passages that were cut and pasted from an Internet source, without citation.

While students are responsible for knowing how to quote from, paraphrase, and cite sources correctly, the ability to apply that information in all writing situations is an advanced literacy skill acquired over time through repeated practice. When a student has attempted to acknowledge sources but has not done so fully or completely, the instructor may determine that the issue is misuse of sources or bad writing, rather than plagiarism. Factors that may be relevant to the determination between misuse of sources and plagiarism include prior academic integrity education at Syracuse University, and the program level of the student.

1.0.1.2 Course Work and Research

1. The use or attempted use of unauthorized aids in examinations or other academic exercises submitted for evaluation;
2. fabrication, falsification, or misrepresentation of data, results, sources for papers or reports; in clinical practice, as in reporting experiments, measurements, statistical analyses, tests, or other studies never performed; manipulating or altering data or other manifestations of research to achieve a desired result; selective reporting, including the deliberate suppression of conflicting or unwanted data;
3. copying from another student's work;
4. actions that destroy or alter the work of another student;
5. unauthorized cooperation in completing assignments or examinations;
6. submission of the same written work in more than one course without prior written approval from both instructors.

1.0.1.3 Communications

1. Violating the confidentiality of an academic integrity investigation, resolution, or documentation;

2. making a false report of academic dishonesty;
3. dishonesty in requests for make-up exams, for extensions of deadlines for submitting papers, or in any other matter relating to a course.

1.0.1.4 Representations and Materials Misuse

1. Falsification of records, reports, or documents associated with the educational process;
2. misrepresentation of one's own or another's identity for academic purposes;
3. misrepresentation of material facts or circumstances in relation to examinations, papers, or other academic activities;
4. sale of papers, essays, or research for fraudulent use;
5. alteration or falsification of university records;
6. unauthorized use of University academic facilities or equipment, including computer accounts and files;
7. unauthorized recording, sale, purchase, or use of academic lectures, academic computer software, or other instructional materials;
8. expropriation or abuse of ideas and preliminary data obtained during the process of editorial or peer review of work submitted to journals, or in proposals for funding by agency panels or by internal University committees;
9. expropriation and/or inappropriate dissemination of personally-identifying human subject data;
10. unauthorized removal, mutilation, or deliberate concealment of materials in University libraries, media, laboratories, or academic resource centers.

1.0.2 COURSE-SPECIFIC EXPECTATIONS

The instructor of record is responsible for determining and communicating course-specific academic integrity expectations. Instructors of record are responsible for stating, in writing, course-specific expectations, particularly those regarding use of sources and collaboration. Students are responsible for consulting their instructors for any clarification needed on academic integrity standards, including those set forth in this policy and those that are course-specific.

Collusion is assisting or attempting to assist another in an act of academic dishonesty. Collusion is distinct from collaborative learning, which may be a valuable component of scholarly development. Acceptable levels of collaboration vary in different courses, and students are expected to consult with their instructor if they are uncertain whether their cooperative activities are acceptable.

1.1 STUDENT ACADEMIC WORK

In compliance with the federal Family Educational Rights and Privacy Act, works in all media produced by students as part of their course participation at Syracuse University may be used for educational purposes, provided that the course syllabus makes clear that such use may occur. It is understood that registration for and continued enrollment in a course where such use of student works is announced constitute permission by the student. After such a course has been completed, any further use of student works will meet one of the following conditions:

1. the work will be rendered anonymous through the removal of all personal identification of the work's creator/ originator(s); or
2. the creator/originator(s)' written permission will be secured.

As a generally accepted practice, honors theses or other capstone projects submitted in partial fulfillment of degree requirements are placed in the library, University Archives, or department for public reference.

2.0 Attendance in Classes

Attendance in classes is expected in all courses at Syracuse University. Class attendance requirements and policies concerning non-attendance are established by the instructors of each course and are detailed in the course syllabus.

2.1 SYRACUSE UNIVERSITY POLICY ON RELIGIOUS OBSERVANCES

It is the policy of Syracuse University that no student should be refused admission or be expelled because he or she is unable to participate in any examination, study, or work requirement because of his or her religious holy day requirements. An opportunity will be provided to make up any examination, study, or work requirements that may have been missed because of an absence due to a religious observance providing that the instructor has been notified in writing one week before the absence. No fees will be charged to the student for the costs incurred by the University for such makeup work. In effecting this policy, the University agrees that no adverse or prejudicial effect should result to any student who avails herself or himself of its provisions.

2.1.1 Yom Kippur is a holiday when it occurs on days when classes meet. Observance begins approximately one hour before sunset on the prior day and ends approximately one hour after sunset on the day of observance. Main Campus and University College (including the branch campuses) classes will be cancelled as follows:

- Prior day: All classes with meeting times extending beyond 6:00 p.m. (start before and end after) or that start after 6:00 p.m. are cancelled.
- Observance day: All classes (day and evening) are cancelled.

3.0 Academic Renewal

Students with a Syracuse University cumulative GPA of less than 2.0 who have been accepted for readmission or matriculation to an undergraduate degree program at the University after an absence of 7 years (14 full fall and spring semesters) may apply for academic renewal. A contract must be completed with the student's college(s) no later than the midterm date (published in the Schedule of Classes) of the semester for which the student was admitted or readmitted. For Main Campus students, all requests for academic renewal will be reviewed by the student's college(s) after the completion of the first semester. To qualify, students must attain a minimum semester GPA of 2.5, unless otherwise noted below, for a full-time course load in their first semester, with no I, F, NA, P, V, WD, or missing grades. University College students must complete 12 credits within two years (four consecutive fall and spring semesters) and must have attained a minimum cumulative GPA of 2.5, unless otherwise noted below, with no I, F, NA, P, V, WD, or missing grades. Students who do not fulfill the requirement at the time of review may not petition again.

- Education, Human Ecology* A GPA of 3.0 is required for the first semester (full-time students) or first 12 credits (University College students).
- Public Communications* Only students who have attempted no more than 30 credits or the equivalent of two full semesters may apply for academic renewal.
- University College Bachelor of Professional Studies students* A 2.5 GPA is required for the first 12 credits.
- Visual and Performing Arts* A 2.8 GPA is required for the first semester (full-time students) or first 12 credits (University College students).

If academic renewal is approved, all prior courses will continue to appear on the transcript but will be flagged to remove them from all credit and grade calculations, and the grade point average will be reset to 0.00. The computation of the grade point average will then start anew with the courses taken after readmission (or matriculation). There will be no selective review of only certain courses for flagging. (Note: the transcript will note that flagging was done under the academic renewal policy.)

The prior coursework will be evaluated in the same manner as transfer credit. Only prior coursework with a grade of C or higher (i.e., no C- or D grades) which can be applied toward the student's degree program will be accepted as a block of credits from the prior record. Grades in these courses will not calculate toward the GPA. To be considered for University honors, students who are approved for academic renewal must complete 60 credits of SU letter-

graded courses that can be calculated in the grade point average. Students who subsequently apply to a different SU college or program must meet all requirements of the new college or program, and all prior credit will be reevaluated accordingly. Students who have not met requirements at the time of review will not have their transcript amended. All coursework taken and grades earned since readmission (or admission, for previously nonmatriculated students) will remain and calculate on the SU transcript record.

Before initiating a request for academic renewal, the student must discuss the academic consequences with an advisor in the college dean's office. Students who plan to apply for financial aid must discuss possible financial aid consequences with a financial aid counselor.

II. Records (Sec.4.0-7.5.4)

4.0 The Academic Record

Syracuse University maintains a permanent academic transcript showing complete course and grade-earned information for every student, matriculated or nonmatriculated, who takes credit-bearing coursework through any of the Syracuse University programs. The transcript may not be modified or selectively deleted for any reason, including ignorance of drop and withdrawal deadlines or academic rules and regulations. Once a degree is conferred, the transcript may not be changed except for administrative error, subsequently discovered fraud or academic dishonesty, or assessments that more accurately represent academic work completed prior to degree certification. (Also see 6.2.2.) In extreme cases, such changes may include the rescinding of a degree.

Transcripts of courses taken and degrees received at Syracuse University are maintained by the Registrar's Office in accordance with the policies of the American Association of Collegiate Registrars and Admissions Officers. Official transcripts requested from the Registrar's Office will show the entire record of all coursework, both undergraduate and graduate, matriculated and nonmatriculated. Undergraduate and graduate transcript records print separately, but are issued and sent together for students with more than one SU academic career. Coursework is displayed chronologically within each career record, with one GPA calculation for the career. However, within that distinction the transcript is not degree-specific: i.e., it does not designate courses that apply to multiple specific degree programs at the same level. Such information may only be obtained from the student's college for undergraduate degrees, or the Graduate School or College of Law for graduate degrees.

Current students may view their records in the Registrar's Office, 106 Steele Hall, upon presentation of appropriate identification: a Syracuse University I.D. card, driver's license, sheriff's I.D., or employment I.D. Students may also view a term-by-term record of their courses and grades on the web at myslice.syr.edu. This requires a NetID and password.

Transcripts may be obtained from the Registrar's Office at no charge. The student's signature must appear on all transcript requests. Students making a request in person must present appropriate identification, as noted above. Syracuse University reserves the right to withhold copies of transcripts of students who have unfulfilled financial obligations to the University or by request of the Office of Judicial Affairs.

Access to student records is protected by the Family Educational Rights and Privacy Act. (See "Student Rights Under the Family Educational Rights and Privacy Act" elsewhere in the catalog.) Students may have copies of their records with certain exceptions (e.g., a copy of the academic record for which a financial "hold" exists, or a transcript of an original or source document that exists elsewhere). Any student attempting to gain possession of another student's record will be suspended by the University immediately.

5.0 Course Numbering System

Remedial, development, and noncredit courses	000-099
Freshman-level courses	100-199
Sophomore-level courses	200-299
Junior- and senior-level courses	300-499
Joint undergraduate- and graduate-level courses	500-599
First-year graduate-level courses	600-699
Second- and third-year graduate-level courses	700-899
Readings, research, and individual study courses at the doctoral level only	900-996
Master's thesis	997
Individualized study at the graduate level	998
Doctoral dissertation	999

Refer to the "Guide to Reading Course Descriptions" section of this catalog for further explanation.

6.0 Grading System

The grading system shown in Table A has been in effect since fall 1987. The University's grading system has changed over time, and the grades, symbols, meanings, and grade point calculations shown in this table have not always been in effect. Information about previous grading systems can be found on the official Syracuse University academic transcript or by contacting the Registrar's Office.

Not all grades or grading symbols shown on Table A are available for all course offerings. Grading options are approved for particular courses by the University Senate and may only be changed with Senate approval.

TABLE A GRADING CHART

Grades	Meaning	Grade Points per Credit
A		4.0
A-		3.667

B+		3.333
B		3.0
B-		2.667
C		2.0
C+		2.333
C-		1.667
D		1.0
F	Failure	0
Grading Symbols	Meaning	Grade Points per Credit
AU	Audit	Not Counted
I	Incomplete	0
NA	Did not attend and did not withdraw	Not Counted
NR	Not Required	Not Counted
P	Passing	Not Counted
RM	Remedial	Not Counted
V	Variable length course -grade not due yet	Not Counted
WD	Withdrew	Not Counted

6.1 PASSING GRADES

Passing grades in order of rank are A, A-, B+, B, B-, C+, C, and C-, D. Credit is earned with a P (pass) but is disregarded in determining the grade point average (GPA). (See section 6.4 for an explanation of pass/fail grades.)

6.2 FAILING GRADES

Failing grades are F (Failure) and I (Incomplete).

6.2.1 F (Failure) A grade of F calculates with zero grade points.

6.2.2 I (Incomplete) Incompletes (Is) are calculated as Fs in the GPA. An Incomplete can be granted only at the student's request and with the instructor's approval. Incompletes can be granted only when exceptional circumstances prevent the student from completing the course, including final examinations or projects, within normal time limits. Deferred examinations are allowed at the convenience of the department involved. To receive an Incomplete, the student must complete the Request for Incomplete Grade form, which is an agreement between the faculty member and the student specifying the reasons, the conditions, and time limit for removing the Incomplete. Students who take a leave of absence or who are withdrawn from the University cannot receive Incomplete grades in courses for which they were registered.

Incompletes may not be awarded unless the student has completed enough work for the course upon which to base a grade. Students for whom no basis for evaluation exists should be advised to drop or withdraw from the course by the published deadlines for such actions. The grade entered on the Request form as "If not completed, the grade will be _____," will be calculated on work completed to date, counting unsubmitted work as zero. If a Removal of Incomplete Grade form has not been submitted by the specified deadline, the Registrar's Office will post this grade to the student's record.

Completion of the Request form does not guarantee that the student will be able to complete the course requirements. If the student does not complete the specified work with the original instructor or within the time specified, the student may be unable to make arrangements to remove the Incomplete. A student who does not complete requirements for removing an Incomplete and who is awarded a letter grade may retake the course at a later time, subject to course availability, then request to flag the original grade to remove it from GPA calculation (see 7.1.1.1).

A student may graduate with Incompletes outstanding, provided

1. the cumulative average equals or exceeds the minimum requirement for the student's college and program, with the Incompletes calculated as Fs;
2. the number of earned credits meets the requirements for the degree; and
3. all degree requirements have been met.

After a degree has been certified, an Incomplete may be removed only when both of the following conditions are met and confirmed by the student's school/college on a petition.

1. the course was not required in any way (quantitatively or qualitatively) in the degree program, and
2. the student completed all coursework prior to the degree award date, and only the evaluation and grade submission occurred after that date.

6.3 NEUTRAL GRADING SYMBOLS

The neutral grading symbols are AU (audit), NA (did not attend and did not withdraw), NR (not required), RM (remedial), V (variable length—grade not yet due), and WD (withdrew). Academic credit is not earned for courses with neutral grading symbols, and the symbols are not included in the GPA calculation. Missing grades also do not calculate toward the GPA.

6.3.1 AU (Audit) Students may audit courses with the approval of the appropriate department and subject to restrictions of the instructor. (See item 8.3 for procedures.) Audited courses do not fulfill requirements in any degree program. Audited courses do not count toward credit hours carried for a semester and cannot be included in calculation of enrollment status.

Although students auditing a course may not be required to fulfill all academic requirements of the course, excessive absences or failure to meet requirements set by the instructor may be grounds for recording an NA rather than an AU. Students auditing a class while not registered for any other credit classes for that term will have limited access to the resources available through the SU libraries. This limited access may prevent students from participating fully in

the research and assignments associated with that class. To participate fully in a class, a student should opt to register for credit and receive a grade.

6.3.2 NA (Did not attend and did not withdraw) NA is an administrative symbol indicating that the student failed to exercise her or his responsibility to withdraw officially from a course. The distinction between NA and WD is that the student who receives an NA failed to withdraw officially from the course, while the student who received a WD officially withdrew. The student does not have the option of later petitioning for an Incomplete or letter grade.

NA is assigned by a faculty member only if one of the following conditions applies:

1. the student never attended the course, or
2. the student stopped attending or participating in the course so early in the semester that no basis for evaluation exists.

For students who have attended or participated in the course long enough to establish a basis for evaluation but who have not withdrawn from the course, the course grade is determined on the basis of the work submitted, counting unsubmitted work as zero.

6.3.3 NR (Not required) This grading symbol is used for courses that do not require a grade.

6.3.4 RM (Remedial) This grading symbol is used for college-level remedial and developmental courses. Courses graded RM count toward credit hours carried in a particular semester but not toward credit hours earned for the degree.

6.3.5 V (Variable-length course, grade not yet due) This grading symbol indicates that the student is making normal progress in a course of variable length, so designed that the work need not be completed at the end of the semester. The option is available only in particular courses for which it has been approved by the Senate. When coursework is completed, the V is replaced by a grade awarded by the faculty member.

6.3.6 WD (Withdrew) Following the academic drop deadline, students may withdraw from a course and have the symbol WD (withdrew) recorded on the transcript. The option of withdrawing from a course is in effect after the academic drop deadline and extends through the withdrawal deadline, approximately two weeks before the last day of classes. The withdrawal deadline is published each semester in the Schedule of Classes. See section 8.1.3 for more information.

6.4 PASS/FAIL GRADES

Some University courses are automatically graded pass/fail. In other courses, undergraduate students may elect a pass/fail grading option. Credit is earned for courses with a P grade, but a grade of F is treated as any other F: the number of credits will be counted and zero grade points will be awarded. Approval to take a course on a pass/fail basis must be obtained before taking the course. No grade other than P or F will be reported by the Registrar's Office.

For undergraduate students who elect the pass/fail option, grades of A, A-, B+, B, B-, C+, C, C-, and D are converted to grades of P. See item 8.3.2 for procedures to elect a pass/fail option or a letter grade in a pass/fail-graded course.

Students interested in graduate or professional schools are advised to use the pass/fail option with caution, since such grades are often regarded as equivalent to letter grades of C or D by some admission committees. Students considering transferring to another undergraduate institution should be aware that courses graded pass/fail may not be accepted as transfer credit.

Students in SU Abroad programs overseas are normally expected to take all courses for academic credit and for a letter grade. Therefore, SU Abroad students are limited to one pass/fail course each semester.

6.4.1 The option is not available for any course required for the major or specific college requirements. Only elective courses may be taken on a pass/fail basis.

No more than 24 credit hours of courses taken pass/fail may be applied toward an undergraduate degree.

Architecture All courses taken to fulfill the architectural professional program requirements must receive a letter grade. Only open electives may be taken pass/fail.

Arts and Sciences No pass/fail course may be used to satisfy the major, minor, or Liberal Arts Core, but may be used for the student teaching requirement for those students dually enrolled with the School of Education.

Education Some courses must be taken pass/fail (e.g., EDU 508). These courses are not included in the 24-credit maximum applicable to an undergraduate degree.

Engineering and Computer Science Only free-elective courses at the 300-level and above or physical education courses may be taken pass/fail. Students are not permitted to have more than 18 credit hours of pass/fail electives in their complete program.

Human Ecology, Sport Management Only non-Sport Management electives may be taken pass/fail.

Human Ecology, School of Social Work SWK 435 and 445, Field Practicum I and II, are graded pass/fail by school policy. With this exception, only elective courses may be taken on a pass/fail basis.

Management Sophomores, juniors, and seniors may use the pass/fail option for one class per semester. The course must be 300-level or higher and must be a free elective or a course from groups I, III, IV, or V on the degree checksheet.

Public Communications A pass/fail course may not be used to satisfy any requirement. Pass/fail courses can be used only as free electives.

University College Bachelor of Professional Studies students A pass/fail course may not be used to satisfy any requirements. Pass/fail courses can be used only as electives. A maximum of 12 credit hours of pass/fail courses may be used toward degree program.

Visual and Performing Arts No studio course may be taken pass/fail.

6.4.2 In cases where a student wishes to major in, or change the major to, a field in which she or he has previously taken a course under the pass/fail option, the chair of the department in which the course was taken and the dean of the student's home college shall determine whether and upon what terms such a course can be used to satisfy departmental requirements.

6.5 REPORTING GRADES

Instructors are required to submit grades for all students in their courses. If a student has not completed all course requirements by the time the instructor must report final grades, the student's grade is determined based on work completed to date, counting unsubmitted work as zero, unless the student has made prior arrangements to receive an Incomplete grade (see 6.2.2). Students who did not drop or withdraw from a course and for whom no basis for evaluation exists will be given an NA grade symbol by their instructors. Students who receive an NA do not have the option of later petitioning for an Incomplete or letter grade. (Missing grades are disregarded in calculating the GPA.)

After a degree has been certified, a grade may be recorded ONLY if

1. the course was not required in any way (quantitatively or qualitatively) in the degree program, and
2. the home school/college determines that the student completed all coursework PRIOR to the degree award date, and only the evaluation and grade submission occurred after that date.

If neither condition can be satisfied and the student wishes to have the missing grade recorded, she/he must agree to have the degree rescinded, must return the original diploma to the Registrar's Office, and have the degree certified for the award date immediately following completion of the coursework before any change to the transcript will be made.

6.5.1 All reported grades appear on the official University transcript and cannot be changed, except as noted in item 6.6. Additional exceptions apply, as follows.

For HEOP or SSSP students (only) in the Summer Start program, grades of D or F will be recorded as WD (withdrawal) on the transcript. By petition, after consultation with his or her program counselor, a student may request that a grade of C- be changed to WD. Petitions must be submitted by the end of the second week of the fall semester.

Engineering and Computer Science Students All courses taken during the Summer Start program for which grades of C- or below are received may by petition have the grade changed to WD. Course withdrawal petitions requesting such consideration must be submitted by the financial drop deadline of the student's initial fall semester.

6.6 CHANGING GRADES

6.6.1 Changes to Previously Submitted Grades Once a grade has been reported, an instructor may submit a grade change at her/his discretion in

accordance with University grading policies set forth in this section. All requested changes must be reported to the department chair, the dean of the student's home college, and the Registrar's Office. Any or all of those offices may require an explanation of the reason for the change, and the completion of associated forms. The Registrar's Office has final authority to approve changes which that involve grading symbols. (Refer to Table A.)

6.6.2 Removal of Incomplete Grade Incomplete grades may be removed in one of two ways: (1) By completing the outstanding work specified on the Request for Incomplete Grade form by the date agreed upon with the instructor, but not later than the award date of the degree to which the course applies. (2) By failure to complete required work in accordance with the terms of the Request for Incomplete Grade, whereupon the "If not completed..." grade will be posted by the Registrar's Office. The student may earn any grade, A through F, or a grade of P where that grade would be appropriate (request for a pass/fail grade had been submitted by the student by the semester deadline, or in a pass/fail graded course).

Incomplete grades are not removed by registering for the course again. Even though an instructor may require a student to repeat certain elements of a course to remove an Incomplete grade, students should not register for the course a second time.

6.6.3 Normal Practice for Course Grade Appeals The following set of general statements represents normal practice at Syracuse University* for a student seeking resolution to a grievance of a course grade.

1. The assignment of grades at Syracuse University is the responsibility of the faculty; once assigned by a member of the faculty, a grade cannot be changed without his or her consent except by due process as detailed below. In cases where the instructor of record is not a member of the faculty, the faculty member charged with oversight of that instructor is ultimately responsible for the assignment of grades.
2. A course grade is based upon the instructor's professional assessment of the academic quality of the student's performance on a body of work. Such assessments are non-negotiable, and disputes about them do not constitute valid grounds for an appeal. Valid grounds can arise, for example, when an instructor fails to provide or implement uniform and consistent standards, or bases an assessment on criteria other than academic performance.*
3. Unless there are issues of a personal nature, the appeal process for a grade dispute begins with the instructor of record. Failure to comply with this may be grounds for denial of subsequent appeals. Any appeal beyond the instructor of record must be initiated in writing to the department chair before the last day of classes of the academic year semester immediately following the one in which the aggrieved grade was received by the Registrar. This written appeal should describe the basis for the grievance, the informal steps taken to resolve the dispute, and the remedies sought.
4. If satisfaction is not obtained at this or any subsequent level, the appeal always moves to the next level of authority. The levels in succession are: the instructor of record, faculty member in charge of the course, the department chair of the faculty member, the dean of the department chair.
5. At each level of appeal, a fair and thorough hearing of all views is sought before a decision is made. This may, but need not, require a face-to-face meeting of the parties directly involved in the dispute. A decision may be reached if both student and instructor agree. If such a decision cannot be reached, a panel designed by the college for this purpose shall hear the case. Details of the operation and manner of selection of this panel may vary by school or college,** but shall conform to the following guidelines:

- a. The panel shall have a quorum of at least three.
- b. All voting members of the panel shall be tenured faculty.
- c. No member of the panel shall hear a case who has been involved in a previous stage of the appeal.
- d. Membership of the panel shall be fixed and made public in a given academic year, though replacements may be made in the event of resignations.
- e. Membership of the panel shall be approved by the faculty of the school or college, or by a representative group of the faculty, in each academic year.
- f. The Senate Committee on Instruction shall approve the manner of selection and charge of a school or college's panel before its first case. The committee shall also approve any subsequent changes in the manner of selection or charge of each college or school's panel.

The panel may, at its discretion, meet with the aggrieved parties either separately or together. The decision of this panel, either to deny the student's original appeal, or to authorize the Registrar to change the grade, shall be final. The panel shall inform both the student and the instructor of its decision in writing. The panel shall also summarize the case and its outcome in a written report to the Senate Committee on Instruction. Said committee may include summary statistics on grade disputes in its final report to the Senate.

6. The only grounds for any further appeal shall be irregularities in the above procedures.
7. In such cases, either party may appeal the final decision of the faculty panel to the Senate Committee on Instruction. The Senate Committee on Instruction may either deny the appeal or insist that the procedure begin anew at the point the irregularity occurred.
8. All stages of the appeal process shall be kept confidential to the maximum extent possible, consistent with the Family Education Rights and Privacy Act.

* For further guidance consult the bylaws of the individual school or college.

7.0 Credit

The unit of credit at Syracuse University is the semester hour. Each semester hour represents one class period of 50 minutes each week for 15 weeks, or the equivalent. Laboratory or field courses require a minimum of two or three class periods a week for each hour of credit.

The grade point average (GPA) is calculated by dividing the number of grade points earned by the number of credit hours carried toward the GPA at Syracuse University. Grade points for each grade and grading symbol are assigned as shown on Table A.

7.1 CALCULATION OF CREDIT HOURS TOWARD DEGREE REQUIREMENTS

All courses in which a passing or failing grade has been awarded calculate toward the cumulative credit and grade totals on the academic transcript, unless they have been flagged to remove them from calculation (see section 7.1.1.1). However, not all courses appearing on the transcript are applicable to specific degree programs, and separate calculations made by colleges or departments to determine progress toward degree requirements may not include all courses on the transcript.

A maximum of six credit hours, graded A-D or P, of college-level remedial and developmental courses (courses numbered 000-099) may be applied, as free elective credit, to the minimum number of credits required for certification of the degree, subject to approval by the student's home college.

7.1.1 Exclusion of Courses from Calculation "Flagging" is a term used to describe the procedure for excluding courses both from the GPA calculation and from the semester and cumulative totals of carried and earned credit hours. It also refers to the notations that appear on the official transcript when such actions occur. Specific rules related to the student's level, i.e., undergraduate or graduate, and/or home college and program govern the application of such flagging.

Students who petition to have grades and courses flagged for any reason described below (7.1.1.1 to 7.1.1.4) should be aware that such action could affect their eligibility for financial aid, including TAP. (The consequence with regard to eligibility could be either positive or negative.) It is recommended that students receiving financial aid consult with the Office of Financial Aid and Scholarship Programs before filing a flag petition.

7.1.1.1 Retaken Courses - Flagging Students who wish to retake a course previously taken at Syracuse University and who petition to have only the second grade count in the cumulative average must retake the same course at Syracuse University. Equivalent courses taken at other institutions are not considered retaken courses for purposes of flagging.

Only the retaking of the same course (same department prefix and number as the original) may be flagged. Courses designated as repeatable (see item 8.2) may not be flagged as retaken, since the course content is considered different in each offering. Exceptions: Selected Topics courses (courses with numbers ending in two zeros [00]) may only be flagged if both occurrences of the course have exactly the same title. Courses requiring a Proposal for Independent Study may only be flagged when the course prefix, number, description, and requirements are the same. Courses or Advanced Credit (AC) examinations (see 7.3) that merely substitute for a requirement in a student's degree program do not satisfy the requirement for flagging.

If the course is no longer offered under the same prefix and/or number, the academically responsible department may designate the course most nearly

equivalent in content at the same level. Such an arrangement must be approved by petition before the course is retaken. Similarly, if an Independent Study (or other course requiring a Proposal for Independent Study) is considered to be equivalent in content to a previously taken course, the academically responsible department must provide a statement to that effect. Marking "Substitute for Required Course" on the Proposal for Independent Study is not sufficient.

After a student earns a degree, courses taken before the awarding of the degree may not subsequently be flagged.

Both the original course and the retaken course are noted on the transcript. Generally, only the grade received in the second course counts in the calculation of the GPA. See Table E for college-specific exceptions.

7.1.1.2 Program Changes - Flagging Under the conditions noted below, students who officially change degree programs may flag courses that do not apply to the new degree program.

Students who transfer from one SU college to another or who change programs within a college so that the new program requires preparation distinct from the former, such as a change in major from illustration to music, and who have accumulated a number of courses that cannot be included in the new program of study may petition to flag courses. Such students must first meet minimum criteria for admission to the new college or program, and they must petition the dean's office of the new college.

Arts and Sciences Only D and F grades in non-Arts and Sciences courses that were required for the previous program, regardless of GPA, may be flagged at the student's request. A, B, C, and I grades in such courses cannot be flagged.

Education and Management If students transferring into these schools from another school or college elect to flag courses that do not apply to their program, they must flag all courses that do not apply.

7.1.1.3 Graduate-Level Courses Taken as an Undergraduate - Students who petition to take graduate-level courses that are intended to later apply to a graduate degree program at Syracuse University (see section 8.0.5.2) must petition to have such courses flagged on the undergraduate section of the transcript and removed from calculation there. This petition must be submitted after the grades for the classes have been posted but prior to the awarding of the bachelor's degree. Credits earned in such courses will be applied as transfer credit "From SU Undergraduate Record" by the graduate department and will count toward the graduate degree requirements, but grades earned in the courses calculate in neither the undergraduate nor the graduate GPA. (Also see section 4.0.)

7.1.1.4 Academic Renewal - Flagging Undergraduates accepted for readmission or admission, who previously attended Syracuse University and who meet the requirements specified in the Academic Renewal policy, will have designated semesters removed from calculation on the transcript. Courses and grades will continue to appear. See 3.0, Academic Renewal, for additional information.

7.2 CREDIT FROM OTHER INSTITUTIONS

7.2.1 Coursework Taken at Other Colleges Prior to Matriculation at Syracuse University Syracuse University grants transfer credit based on the content of courses previously completed, their applicability to the intended program of study, and the quality of the student's performance. In accord with the Joint Statement on Transfer and Award of Academic Credit by the American Council on Education/Commission on Educational Credit and Credentials, the Commission on Recognition of Postsecondary Accreditation, the American Association of Community Colleges, and the American Association of Collegiate Registrars and Admissions Officers, individual schools and colleges may assess and accept credit from institutions recognized by regional accrediting commissions, national accrediting bodies, and professional organizations that accredit free-standing professional schools and programs within multipurpose institutions, as well as institutions that are recognized candidates for accreditation. For the accredited programs offered in non-accredited institutions, credit may be considered only for students enrolled in an accredited program and for courses within the specific discipline that is accredited, e.g. excluding general education courses offered by the institution.

Transfer credit may be granted for studio work applicable toward professional degrees in the College of Visual and Performing Arts and the School of Architecture upon departmental evaluation of the portfolio.

Syracuse University may also grant credit for courses taken at recognized foreign tertiary-level institutions. Foreign institutions that are chartered and authorized by their respective national governments, generally through the Ministry of Education, are considered "recognized."

Only credit hours are accepted in transfer. Grades do not transfer and do not affect the student's Syracuse University cumulative GPA. Credit from institutions on a credit system other than a semester-hour system are converted to semester hours. For example, credit from institutions on the quarter-hour system is converted to semester hours using the formula of 1 quarter-hour equals 2/3 semester hour.

Transfer credit is evaluated only for the program of study to which the student is admitted and is subject to change if a student changes to a different program at Syracuse University. A re-evaluation of transfer credit may also affect financial aid awards, particularly when this changes an undergraduate student's class standing.

If a student subsequently takes a course at Syracuse University for which transfer credit was previously accepted, the transfer credit will be removed from the official transcript.

Credit is allowed only for those courses in which a grade of C or better has been earned. Grades of C- are not acceptable. Courses in which a grade of "Pass" is received must be certified to be a C or higher to be accepted. Courses in which pass grades were earned can normally be accepted only as elective credit.

A maximum of 66 lower-division semester hours may be transferred to the SU degree from a combination of testing programs and two-year colleges. A maximum of 90 semester hours of credit may be granted from another four-year college. At no time may the total credit hours transferred to the Syracuse University degree from college courses and testing programs (see Section 7.5) exceed 90 semester hours. (See 13.2 for restrictions which apply to second undergraduate degrees.)

For transfer students, the amount of credit awarded determines class standing. Thus, if credit is not granted for all previous work, the class standing of the student at Syracuse University may be different from what it might have been at the previous institution. Financial aid awards may be affected for transfer students whose class standing changes as the result of this evaluation.

7.2.2 Coursework Taken at Other Colleges Following Matriculation at Syracuse University The general policies above also apply to students taking courses at other institutions following matriculation at Syracuse University. Students who intend to complete coursework elsewhere during the summer or while on leave of absence must receive prior approval from the home college office if credit is to be applied toward the SU degree. Following completion of coursework, it is the student's responsibility to have an official transcript sent from the institution to the home college's records office.

Students who wish to retake a course previously taken at Syracuse University and petition to have only the second grade earned count in the Syracuse cumulative average must retake the same course at Syracuse University. Transfer credit may not be used for this purpose.

Arts and Sciences, Public Communications, and Visual and Performing Arts Students on academic probation are not given transfer credit until their cumulative average is 2.0 or higher.

Management A minimum of 27 credit hours of required Management courses must be taken at Syracuse University.

Public Communications No more than 12 hours of communications course credits earned in another college or university may be accepted toward meeting the requirements of a major program of study in the School of Public Communications.

University College No more than 12 credit hours earned in another college or university may be accepted toward meeting the program of study requirements in the bachelor of professional studies degree. No more than 9 credit hours earned in another college or university may be accepted to the LGL credit certificate program requirements. No more than three credit hours earned in another college or university may be accepted to the Organizational Leadership credit certificate program requirements.

7.2.2.1 Transfer of Credit from a Two-Year College Following Matriculation at Syracuse University Before a Syracuse University student attains junior standing (54 credits), approved coursework may be taken at a two-year college during a summer session or while on leave of absence. After a student has attained junior standing (either through coursework at Syracuse, at a two-year college, or any combination thereof), the only coursework that will be approved for completion at a two-year college will be courses fulfilling lower-division requirements or free electives, as long as the total completed hours transferred from a two-year college do not exceed 66.

7.2.2.2 Consortium Agreements Syracuse University does not allow students to enroll at other institutions under an individual consortium arrangement. The University does not have formal consortial arrangements with any other institutions, except through Syracuse University Abroad (SU Abroad), the Graduate Scholar Exchange Program, and the Consortium for Culture and Medicine. Matriculated students who plan to study abroad through a program not

directly sponsored or administered by SU Abroad must contact an SU Abroad counselor at least three months before the start of the program, if they intend to apply for federal financial aid that requires a consortium agreement. Credit earned through such programs is generally treated as Syracuse University credit. For SU Abroad programs, this determination is made by departmental and college review (see 19.0).

7.2.3 Courses Taken at SUNY College of Environmental Science and Forestry (ESF) Before or After Matriculation at Syracuse University. Because of the special relationship between Syracuse University and SUNY College of Environmental Science and Forestry, Syracuse University students may take ESF courses, and ESF students may take Syracuse University courses, with the approval of the home institution and subject to availability.

For ESF students, ESF is the college of record. Syracuse University does not maintain a transcript record of SU courses taken by ESF students. A student previously matriculated at ESF who is subsequently admitted to Syracuse University will have all coursework taken while a ESF student, including Syracuse University courses, treated and evaluated as transfer credit from ESF. Such Syracuse University courses will not appear or calculate on the Syracuse University transcript, except as they are included in a block of transfer credits, i.e., total credit hours, accepted from ESF. However, such Syracuse University courses do count toward the Syracuse University residency requirement (see item 13.5). Colleges may at their discretion include such courses in manual calculations, e.g., for determination of subsequent intra-university transfer eligibility.

ESF courses taken by matriculated Syracuse University students appear on the Syracuse University transcript and calculate in the same way as Syracuse University courses. ESF courses do not count toward the Syracuse University undergraduate residency requirement.

7.3 ADVANCED CREDIT EXAMINATIONS

Advanced Credit Examinations are designed to allow matriculated students the opportunity to be examined on, and receive credit for, the knowledge and skills covered by regular courses that students may have acquired outside traditional course structures. Advanced Credit Examinations must be associated with particular SU course subjects and numbers. Because such examinations are not appropriate for certain courses, including Selected Topics and courses requiring a Proposal for Independent Study, colleges and departments are under no obligation to design and offer one upon a student's petition. Credits earned by Advanced Credit Examinations may not be applied to the residency requirement.

An Advanced Credit Examination must be approved by the chair of the department concerned, the student's advisor, and the dean of the student's home college. Exams are administered and graded by a member of the faculty. Both credit hours and grades are recorded on the transcript and contribute to the total credit hours earned and the cumulative GPA for the degree. However, these credit hours and grades do not count in a particular semester record.

A student may not take an Advanced Credit Examination in a course for which credit was previously earned. Advanced Credit Examinations are not considered as retaken courses for flagging purposes.

If a student subsequently takes a course at Syracuse University for which an Advanced Credit Exam was previously passed, the AC credit will be removed from the official transcript.

The fee for Advanced Credit Examinations is published each year in Tuition, Fees, and Related Policies. The fee is in addition to the regular tuition for a given semester.

Only grades of C or better are acceptable as passing grades.

A maximum of 30 semester hours of credit from the combination of Advanced Credit Examinations and credit hours earned through nontraditional programs (see section 7.5) may be applied toward the number of credits required for graduation.

7.4 COMPETENCY AND PROFICIENCY EXAMINATIONS

Advanced standing, exemption, or placement examinations may be given by certain departments in the University (e.g., Mathematics, English, and Languages, Literatures, and Linguistics) to determine where students should be placed in a certain sequence of courses. No credit is given for these examinations, and no requirements are waived by successfully completing placement or advanced standing examinations. Students may, however, be excused from prerequisite courses on the basis of advanced standing examinations. These examinations may be given to newly admitted students before or after their first registration at Syracuse. After registration, individual arrangements may be made by the student with the permission of the chair of the department involved and the dean of the student's home college.

7.5 CREDIT FOR EXTRA-INSTITUTIONAL AND EXPERIENTIAL LEARNING, AND EXTERNAL EXAMINATION PROGRAMS

In accord with the Joint Statement on Transfer and Award of Academic Credit by the American Council on Education/Commission on Educational Credit and Credentials, the Commission on Recognition of Postsecondary Accreditation, the American Association of Community Colleges, and the American Association of Collegiate Registrars and Admissions Officers, individual schools and colleges may assess and award credit for educational accomplishment attained in extra-institutional settings, including programs and courses offered by non-collegiate sponsors such as the military, business, corporations, government agencies, and labor unions, as well as external examination programs. Schools and colleges will consult evaluation guidelines of the American Council on Education and the Council for Advancement of Experiential Learning. If a student subsequently takes a course at Syracuse University for which credit was earned for extra-institutional and experiential learning or external examination programs this credit will be removed from the official transcript. A maximum of 30 semester hours of credit may be accepted from all forms of extra-institutional and experiential learning, and examination programs (including Syracuse University Advanced Credit Examinations). If a student changes degree programs and/or transfers to another school or college of the University, such credit will be re-evaluated and may or may not be applied to the new degree program. (See item 13.2 for restrictions that apply to second undergraduate degrees.)

7.5.1 College Board Advanced Placement (AP) and College Level Examination Program (CLEP) The student's home college evaluates and accepts credit toward the degree program for AP and CLEP examinations, using the rules in effect at the time of the student's matriculation into the University. Schools and colleges are guided by the recommendations of the academic unit with principal responsibility for the examination subject regarding the minimum acceptable score for awardable credit and the SU course equivalency. Current recommendations are shown in tables B and C. Examinations not represented on these tables may be assessed at the discretion of the appropriate academic unit. A student's home college or school may have higher score requirements and/or different qualifications than these recommendations, both for awarding credit and satisfying degree requirements.

7.5.2 Excelsior College Examinations (formerly Regents College Examinations) Schools and colleges may consider awarding credit for Excelsior College Examinations based on the American Council on Education's recommendations for level, credits, and scores or grades, as published in the Guide to Educational Credit by Examination. Examinations that have not previously been accepted are subject to review by the appropriate academic department, which may set additional requirements. There are no University-wide recommendations regarding examination scores, credits, or course equivalencies.

7.5.3 International Baccalaureate (IB) Credit for Higher Level IB examinations completed with a grade of 5 or higher will be awarded as indicated in Table D. No credit will be awarded for Standard Level exams or additional requirements.

7.5.4 Military Service Academic Credit Students who have completed any United States military training should request that Student Administrative Services, 700 University Avenue, make a preliminary evaluation of military training and service school records for possible credit. Recommendations will be considered by the home school or college for possible application to the degree program.

(Note: Credit earned in military science and aerospace science offered through the Army and Air Force ROTC programs does not count toward the number of credits required for graduation unless the courses are cross-listed with regular University courses.)

Table B College Board Advanced Placement Examinations

Exam Subject/Title	Minimum Score	Awardable Credit	Equivalent SU Course	Recommending School/College	Additional School/College Requirements or Qualifications
Art/Drawing	5	3	Studio	Visual and Performing	Visual and Performing Arts Does not count toward Art and Design Freshman Foundation studio

			Executive	Arts	courses.
Art/2-D Design	5	3	Studio Elective	Visual and Performing Arts	<i>Visual and Performing Arts</i> Does not count toward Art and Design Freshman Foundation studio courses.
Art History	3	6	HOA 105,106	Arts and Sciences	
Biology	4	6	BIO 200	Arts and Sciences	<i>Arts and Sciences</i> Students may apply to the chair of Biology for an additional two credits of laboratory with documentation that the grade on the AP course is an A or B. The total of eight credits of Biology with lab will substitute for BIO 121-123 in Natural Sciences and Mathematics.
Chemistry	3	3	CHE 103	Arts and Sciences	
Chinese	3 4	4 4	CHI 102 CHI 201	Arts and Sciences Arts and Sciences	<i>Public Communications</i> Must also place out of CHI 102 (with a score of 3) or CHI 201 (with a score of 4 or 5) on the placement exam.
Comparative Government and Politics	3	3	PSC 123	Arts and Sciences	
Computer Science A or Computer Science AB	3	3	CPS 196	Engineering and Computer Science	<i>Engineering and Computer Science</i> Students will receive this credit only upon approval of their department chair.
English Language and Composition	3	6	WRT 105-205	Arts and Sciences	<i>Education(Inclusive)</i> will accept a score of 3 only after a grade of B+ or higher is earned in an SU writing course.
English Literature and Composition	4	6	ETS 151 (or 117 or 118 or 152 or 153) and WRT 105	Arts and Sciences	<i>Arts and Sciences</i> Students scoring 4 or better will receive 3 credits for ETS 151. Such students who subsequently elect to take EIS 151 may transfer the credit to one of the following: EIS 117, 118, 152, or 153. 3 additional credits are awarded for WRT 105
Environmental Science	3	3	EAR 200	Arts and Sciences	
European History	4	6	HST 111,112	Arts and Sciences	
French Language	3	4	FRE 102	Arts and Sciences	<i>Public Communications</i> Must also place out of FRE 102 on the placement examination
French Literature	3 4	4 4	FRE 102 FRE 201	Arts and Sciences	<i>Public Communications</i> Must also place out of FRE 102 (with a score of 3) or FRE 201 (with a score of 4 or 5) on the placement examination.
German Language	3	4	GER 102	Arts and Sciences	<i>Public Communications</i> Must also place out of GER 102 on the placement examination
Human Geography	4	3	GEO 105 or 171	Arts and Sciences	
Latin,Catullus-					

Horace and/or Latin, Virgil	3	4	LAT 102	Arts and Sciences	<i>Public Communications</i> Must also place out of LAT 102 on the placement examination
Italian Language and Culture	3	4	ITA 102	Arts and Sciences	<i>Public Communications</i> Must also place out of ITA 102 (with score of 3).
Japanese language and Culture	3 4	4 4	JPS 102 JPS 201	Arts and Sciences	<i>Public Communications</i> Must also place out of JPS 102 (with a score of 3) or JPS 201 (with a score of 4 or 5) on the placement examination
Macroeconomics	4	3	ECN 102	Arts and Sciences	
Microeconomics	4	3	ECN 101	Arts and Sciences	
Mathematics—Calculus AB	3 4	3 6 or 4	MAT 285 MAT 285 and 286 or MAT 295	Arts and Sciences	<i>Engineering and Computer Science</i> 4 credits awarded for MAT 295 only, pending results of the math placement examination
Mathematics—Calculus BC	4	8	MAT 295,296	Arts and Sciences	<i>Engineering and Computer Science</i> Up to 8 credits awarded for MAT 295 only, pending results of the math placement examination.
Mathematics—Calculus BC-AB subscore	3 4	3 6 or 4	MAT 285 MAT 285 and 286 or MAT 295	Arts and Sciences	<i>Arts and Sciences</i> Exemption from Quantitative Skills and substitute for MAT 285 in Natural Sciences and Mathematics
Mathematics Level II [†]	3	3	MAT 194	Arts and Sciences	
Music Theory	3	6	HOM 125,126	Arts and Sciences	
Physics B	3	8	PHY 101,102	Arts and Science	<i>Education (Inclusive)</i> will accept a score of 3 only after a grade of B+ or higher is earned in an SU lab/science course.
Physics C (Mechanics)	3	4	PHY 101 or 211,221	Arts and Sciences	
Physics C (Electricity and Magnetism)	3	4	PHY 102 or 212,222	Arts and Sciences	
Psychology	4	3	PSY 205	Arts and Sciences	
Spanish Language	3	4	SPA 102	Arts and Sciences	<i>Public Communications</i> Must also place out of SPA 102 on the placement examination
Spanish Literature	3 4	4 4	SPA 102 SPA 201	Arts and Sciences	<i>Public Communications</i> Must also place out of SPA 102 (with a score of 3) or SPA 201 (with a score of 4 or 5) on the place examination
Statistics	3	3	MAT 121 or 221 or STT 101	Arts and Sciences	<i>Management Credit</i> accepted as MAS 261
U.S.					

Government and Politics	3	3	PSC 121	Arts and Sciences	
U.S. History	4	6	HST101,102	Arts and Sciences	
World History	4	6	HST200	Arts and Sciences	

† Exam offered in Puerto Rico only

Table C CLEP Examination Credit

Exam Subject/Title	Minimum Score	Awardable Credit	Equivalent SU Course	Recommending School/College
American Literature	50, plus passing of oral test at SU	3	ETS 118	Arts and Sciences
French Level I	50, plus passing of oral test at SU	4	FRE 101	Arts and Sciences
French Level II	62, plus passing of oral test at SU		FRE 102	Arts and Sciences
General Biology	70	6	BIO 200*	Arts and Sciences
General Chemistry	50	6	CHE 106,116	Arts and Sciences
German Level I	50, plus passing of oral test at SU	4	GER 101	Arts and Sciences
German Level II	63, plus passing of oral test at SU	4	GER 102	Arts and Sciences
History of U.S. I, II	50	6	HST101,102	Arts and Sciences
Political Science	50	3	PSC 121	Arts and Sciences
Spanish Level I	50, plus passing of oral test at SU	4	SPA 101	Arts and Sciences
Spanish Level II	66, plus passing of oral test at SU	4	SPA 102	Arts and Sciences
Western Civilization	50	6	HST 111,112	Arts and Sciences

* Students may apply by petition to the chair of biology for an additional 2 credits of laboratory if they can document a significant lab experience and a grade of B or better in their biology courses. The total of 8 credits of biology with lab experience documented will substitute for BIO 121-123 in natural sciences and mathematics.

Table D International Baccalaureate Course Equivalency Credit

IB Higher Level Examination	Syracuse University Credit
Biology	8 credits—BIO 121 and 123
Business and	6 credits—lower division; free election only

Organization	6 credits lower division; free elective only
Chemistry	6 credits—CHE 103 and 113
Economics	6 credits—ECN 101 and 102
English—World Literature	6 credits lower division
Foreign Languages	No credit awarded. Exemption from basic and continuing skills in foreign languages according to performance on proficiency examination administered by the department.
Geography	6 credits—GEO 105 and 173
History	6 credits lower division
Mathematics	6 credits—Quantitative skills
Philosophy	6 credits—PHI 191 and 197
Physics	8 credits—PHY 101, 102, 111, 112
Psychology	6 credits—PSY 205 and 274
Social Anthropology	6 credits—ANT 111 and 121

III. Registration (Sec.8.0-8.3.2)

8.0 Returning students are eligible to register for the next semester during the registration period at the end of the fall and spring semesters. New students register just before the term begins. Part-time students register through University College beginning the first day of early registration. Registration must take place prior to the first day of the term—not the first day of the class—to avoid a late registration fee. All matriculated Syracuse University students in good academic standing, as well as visiting and non-matriculated students, are eligible to register for summer sessions. All summer registration for returning and visiting students is coordinated by University College. Detailed registration instructions are published in the Schedule of Classes and the Studies at Syracuse University part-time or summer course schedule.

Students who were full-time during the spring semester and who intend to register as full-time during the fall semester may not transfer to part-time continuing education status for the summer.

Beginning on the first day of classes for a term or summer session, there is a fee for late registration. All outstanding financial obligations must be resolved with the Bursar's Office before students may register.

Students who do not pay outstanding bills by December 15 for the spring semester, or by August 1 for the fall semester, may have their early registrations cancelled and may not register until classes begin.

The home college of a student is the unit primarily responsible for advising and approving the registration of its students. In the case of students enrolled in more than one college that advising responsibility is shared, with the home college acting in the primary role. While the student normally initiates registration and subsequent academic actions, the student's college(s) of matriculation may also initiate such actions. No other University units may make substantive changes to an undergraduate student's schedule of classes without first securing the formal permission of the student's home college, except as provided for by immunization requirements (see 8.0.3) and financial cancellation. (Substantive changes include additions, deletions, and changes of courses.)

8.0.1 Official Registration Required for Attending Classes University policy prohibits students from attending, being evaluated, auditing, or otherwise participating in courses without being officially enrolled. The only exception is for students making up Incomplete grades with faculty approval. Faculty may not allow students to attend classes and/or submit work unless students (1) appear on the official class list or (2) present a current copy of their class schedule showing the course to have been added. Adding of courses or entire schedules after the late registration and add deadline may be done by petition only.

8.0.1.1 Students must register for a course in the semester in which they begin work for the course. Attending a class without officially registering and then registering for the course as if it were taken in a subsequent term for reasons of resource, billing, or scheduling convenience is strictly prohibited.

Advisors and faculty should not advise students to take such actions, and students are held to the policy regardless of such advice or permission. If such action occurs and grades are later reported for recording on the transcript, students will be dropped from the later course registration and retroactively registered in the term during which they actually took the course. The Bursar's Office will adjust tuition and fees to those in effect during the semester in which the course was taken.

8.0.2 Accommodations for Students with Disabilities Syracuse University welcomes people with disabilities and, in compliance with Section 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act, does not discriminate on the basis of disability. Upon acceptance to Syracuse University, students with disabilities are strongly urged to discuss academic and nonacademic accommodations with the Office of Disability Services, 804 University Avenue, Room 309; 315-443-4498 (VOICE), 315-443-1371 (TTY), www.disabilityservices.syr.edu.

8.0.3 Immunization Requirements All full- and part-time students who were born on or after January 1, 1957, who enroll for or audit credit-bearing courses through Main Campus, University College, Syracuse University Abroad, or the SUNY College of Environmental Science and Forestry (ESF) must document their immunization from measles, mumps, and rubella and be cleared to register in the Health Service information system. Students who register for fewer than six credits in any one term through Extended Campus (School of Education) or Project Advance are exempt. Independent Study Degree Program students are exempt. All students must provide to Health Services a completed response form related to meningococcal meningitis vaccine indicating that the student has received and reviewed related information, and that he or she has either been immunized within the preceding 10 years or has opted not to obtain immunization against meningococcal disease.

The mechanism for enforcing this policy is the registration system, which will block a student from enrolling for a current or upcoming semester unless the student has provided necessary documentation to or been immunized by the University Health Service. Students with the message "Health Services

Hold” on their registration must go to SU Health Services to show documentation or to be immunized. Programs not using the registration system will have appropriate administrative controls.

Any enrolled student found not to be in compliance with the immunization requirements will receive a letter from the Senior Vice President and Dean of Student Affairs, or his or her designee, notifying her/him of suspension from the University and restriction from University-owned or -controlled property. Such students will be administratively dropped from any courses in which they were previously registered, will have I.D. card privileges suspended, and will be asked to leave residential housing.

For further information about the immunization requirements, religious and medical exemptions, and documentation procedures, students should contact the University Health Service.

8.0.4 Registration for More Than 19 Credit Hours With permission of the Honors Program, students in good standing in the Renée Crown University Honors Program may register for more than 19 credit hours in a fall or spring semester (or more than 7 credit hours in a six-week summer session or Maymester and Summer Session I combined) without special approval of their home school or college. Non-Honors Program students may enroll for more than 19 credit hours (or more than 7 credit hours in a summer session) only if they petition for and receive the permission of their home college. Undergraduates registering for more than 19 credit hours will be assessed the appropriate extra tuition charges, unless they qualify for an overload rate exception. See Tuition, Fees, and Related Policies for related financial policies.

8.0.5 Registration for Graduate-Level Courses Registration for graduate-level courses is subject to a variety of restrictions, depending upon the student’s level and intended application of courses toward degree requirements.

8.0.5.1 Graduate-Level Courses That Will Be Applied Toward the Undergraduate Degree Program Before registration for the course, students must petition to their home college to apply the course toward the undergraduate degree.

8.0.5.2 Graduate-Level Courses That Will Not Be Applied Toward the Undergraduate Degree Program, But That Will Be Applied Toward a Graduate Degree at Syracuse University Students who anticipate enrolling in a graduate degree program at Syracuse University and who wish to take a graduate-level course with the intention of applying it toward a Syracuse University graduate degree must petition the Graduate School prior to registration for the course. This rule applies to both matriculated SU undergraduates and to students not matriculated at Syracuse University who register as undergraduates and take graduate-level courses here with the intention of applying them toward an SU graduate degree program.

The petition must include the following information: the prefix, number, and title of the graduate course; the number of graduate credits to be taken; the credit hours required to complete the bachelor’s degree and the cumulative GPA, verified by the dean’s office of the student’s home college; a statement that the course is not required for completion of the undergraduate degree; and the signatures of the instructor, the chair of the department offering the course, and the home college dean’s office.

Undergraduates may earn only “restricted credit” in such graduate courses until they have officially registered as matriculated SU graduate students. (See graduate rules, 4.0-4.2 for information.)

Such courses taken for graduate credit may not be applied toward the SU undergraduate degree. They will be flagged on the undergraduate section of the transcript and removed from calculations there. Application of these courses to an SU graduate degree program is subject to the requirements established by the Graduate School (see sections graduate rules, 4.00-4.2). After matriculation, and upon approval by the Graduate School, the credit hours earned in such courses will be transferred to the graduate record as a block of credit hours. Under no circumstances will grades earned in such courses calculate in either the undergraduate or graduate GPA.

8.0.5.3 Graduate-Level Courses That Will Not Be Applied to Either an Undergraduate or Graduate Degree Program at Syracuse University Graduate courses taken by undergraduate students will appear on the transcript with a notation to indicate the course is graduate-level. Unless the student has petitioned as described in item 8.0.5.1, the course and grade will not be counted toward calculations for certification of either undergraduate or graduate degree requirements, but will appear on the undergraduate transcript and calculate in the overall undergraduate credit and GPA calculations.

8.1 CHANGES TO REGISTRATION

Students may make changes to their registration after the semester begins in accordance with the deadlines published each semester in the Schedule of Classes. Academic and financial deadlines are determined by the campus of instruction for particular courses.

University College Students Deadlines for adding and dropping regular semester courses are published in Studies at Syracuse University part-time or summer course schedule on the web at uc.syr.edu and are available by phone at 315-443-4135.

8.1.1 Adding Courses For regular, i.e., full-semester, courses, the add deadline is approximately one week from the first day of classes. Courses with nontraditional start dates have different deadlines. Specific dates and procedures are published each semester in the Schedule of Classes and in the Studies at Syracuse University part-time or summer course schedule. After the add deadline, only courses with a later starting date may be added.

University College Students Students who are registered through University College may use web registration or submit registration and Add/Drop forms to the University College Registration Office, 700 University Avenue. Deadlines for adding and dropping regular semester and summer session courses are published in the Schedule of Classes and the Studies at Syracuse University part-time or summer course schedule. Deadlines for flexible format classes (classes that are shorter or longer than the full term) are unique to each class and are available by calling the University College Registration Office.

8.1.2 Dropping Courses For regular, i.e., full-semester, courses, the drop deadline is approximately one week after mid-semester. The financial drop deadline (the last day to drop a course and be eligible for a tuition refund) is approximately three weeks after the first day of classes. Courses with nontraditional start and end dates may have different deadlines. Specific dates and procedures are published each semester in the Schedule of Classes and in the Studies at Syracuse University part-time or summer course schedule. See Table F and the Tuition, Fees, and Related Policies publication for the complete statement of the University’s policy regarding the effect of drops on tuition charges. Tuition refunds, if any, are based on the official date of the action, i.e., the date the form was submitted to the Registrar’s Office or, for University College students and, in summer, to University College.

University College Students Students who are registered through University College may use web registration or submit registration and Add/Drop forms to the University College Registration Office, 700 University Avenue. Deadlines for dropping regular semester and summer session courses are published in the Schedule of Classes and the Studies at Syracuse University summer or part-time course schedule. Deadlines for flexible format classes (classes that are shorter or longer than the full term) are unique to each class and are available by calling the University College Registration Office.

8.1.2.1 Administrative Drops FALL/SPR: Instructors have the option to drop students who do not attend the first week of class (up to and including the add deadline). If an emergency prevents a student from attending the first week, he/she must contact the instructor before the add deadline to affirm his/her intention to continue in the course. Administrative drops must be completed by the financial drop deadline, three weeks from the first day of class. **SUMMER:** the administrative drop forms for Summer Sessions I and II must be received by the UC Bursar/Registration Office by the financial drop deadline, which is the sixth day of the session. Combined Session administrative drop forms must be received by UC no later than the thirteenth day of the session. Due to the compressed time frame of summer sessions, drops received after the financial drop deadline cannot be processed and the student will not be removed from the class. Faculty must advise students they have been dropped from the class. There is no administrative drop process for MayMester.

8.1.3 Withdrawing From Courses Following the academic drop deadline, students may withdraw from a course and have the symbol WD (withdrew) recorded on the transcript. The option of withdrawing from a regular, i.e., full-semester, course extends up to approximately two weeks before the last day of classes. Courses with nontraditional start and end dates may have different deadlines. Specific dates and procedures are published each semester in the Schedule of Classes and in the Studies at Syracuse University part-time or summer course schedule.

Following the last day to receive a WD, students are evaluated on the basis of the work completed in the course. A student’s failure to drop or withdraw properly from a course does not preclude the instructor from submitting a grade for the student on the basis of the work previously submitted. Unsubmitted work counts as zero in calculating a student’s grade in a course.

8.2 RETAKING COURSES

Students may retake courses, subject to school/college retaken course rules and restrictions (see Table E) and course availability. Some programs require the retaking of courses in which unsatisfactory grades (as defined by the program) were earned (also see Table E). To be considered a retaken course, each course registration must be for the same Syracuse University course, i.e., same department prefix and course number as the original course or, in the case of prefix or number changes within a department, the equivalent course as defined by the academic department. In the case of selected topics or other variable content courses, the course topic must be exactly the same. Only retaken courses that fit this definition are eligible for flagging (see 7.1.1.1).

Retaken courses that are not flagged continue to calculate toward credit and grade point totals on the transcript. However, a course that is retaken counts only once toward fulfillment of degree requirements.

Retaken courses may not count toward eligibility and satisfactory progress requirements for certain types of financial aid awards, including New York State TAP. Students receiving financial aid are advised to check with the Office of Financial Aid and Scholarship Programs before registering for any course a second time. Part-time University College students are advised to check with the UC Financial Aid Office before registering for any course a second time. Students must register for any retaken course. Under no circumstances, including faculty permission, may a student retake a course merely by sitting in on a class in a subsequent semester, expecting to have the new grade recorded for the original registration. (Note: Retaken courses differ from repeatable courses. Courses designated in the course catalogs as repeatable can be taken and counted more than once toward fulfillment of degree requirements. Repeatable courses do count toward eligibility and satisfactory progress requirements for certain types of financial aid awards, unless the allowable maximum number of credits or repetitions is exceeded.)

Table E Retaken Courses and Flagging

Retaken Courses (see 8.2): A course normally may be retaken only once, subject to college-specific rules, below.

Retaken Courses–Flagging (see 7.1.1.1): Generally, only the grade received in the second course counts in the calculation of the GPA, except as noted below.

School/College	Retaken Course Rule	Flagging Rule
Architecture	Any course in which a student has received a grade of C, D, or F may be retaken. No Architecture course may be registered for more than three times.	The higher of the two grades is counted in the GPA.
Arts and Sciences	Students may retake a course for grade improvement.	The higher of the two grades is counted in the GPA. For courses retaken more than once, the two earlier grades may be flagged by petition. Flagging, especially when excessive, may have academic consequences. Students are encouraged to speak to their home college. Flagging of repeated courses is initiated by the college at the conclusion of the semester in which the course was repeated.
Education	A requirement may be retaken more than once by advance petition only. Courses may be attempted only three times.	The higher of the two grades is counted in the GPA. For courses retaken more than once, the two earlier grades may be flagged by petition.
Engineering and Computer Science	Any course with a D or F may be retaken twice.	If a student takes a course a third time, only the third grade will be used to calculate the GPA. If a student takes a course a fourth time, the third and fourth grades will be used to calculate the GPA. Only forward flagging of grades will be allowed.
Human Ecology	Nutrition (DPD) The following required sciences: BIO 121, BIO 216 BIO 217, CHE 106, CHE 116, or MAT 121, MAT 221 must be retaken for credit if a D or F is earned. Any required NSD or NHM class must be retaken for credit if a C- or less is earned. Hospitality Management. After earning one C- or D grade in a Hospitality Management (HPM) core course, students must repeat any	Grades in courses can only be flagged once.

	<p>additional HPM course in which a grade of C- or D is earned.</p> <p>School of Social Work Any course with a D or F may be retaken once. A requirement may be retaken more than once by advance petition only.</p>	
Information Studies	Any course with a D or F may be retaken once. Retaking a course more than once or retaking of course in which a C- or higher grade was earned requires advance approval by petition.	
Management	Students may retake a course for grade improvement. Normally, students may not retake a course after completing a more advanced course in the same area. Students should check with an advisor in the Undergraduate Office before retaking a course.	The most recent grade is used to calculate the GPA, regardless of which grade is higher. Management grades can be flagged only once.
Public Communications	Public Communications courses in which a passing grade was earned may not be retaken.	A grade of F will be flagged only once for a retaken course. If a student retakes a Public Communications course in which a passing grade was previously earned, the second grade will be flagged.
University College, Bachelor of Professional Studies	Required LGL courses with grades of D or F must be retaken for credit. Individual LGL courses may be retaken only once.	LGL courses with a grade of D or F will be flagged only once.
Visual and Performing Arts	Any academic elective course in which a student has received a grade of D or F may be retaken. A studio course may be retaken only when a grade of F has been received.	The higher of two grades is computed in the GPA.

8.3 SELECTING GRADE OPTIONS

Students may, in some cases, elect a grading option other than the option associated with the course.

8.3.1 Audit To audit a course, students must obtain the permission of the instructor on a Grading Option Application, and submit the form to the Registrar's Office, 106 Steele Hall. Part-time University College students must obtain the permission of the instructor on a Grading Option Application and submit the completed form to University College Bursar and Registration, 700 University Avenue. Students must decide within the first two weeks of classes to take a course as an audit. They may not rescind the audit or change from audit to credit after the deadline published in the Schedule of Classes. (See item 6.3.1 for additional information about auditing courses.)

Courses that require a Proposal for Independent Study and studio art or applied music courses offered by the College of Visual and Performing Arts cannot be audited.

University College Bachelor of Professional Studies ACT or LGL courses cannot be audited.

8.3.2 Pass/Fail Option in Letter-graded Courses or Letter Grade Option in Pass/Fail-Graded Courses In some pass/fail graded courses, students may elect a letter grade. A list of such courses appears on the Grading Option Application form. In letter-graded courses, students may elect a pass/fail grading option, subject to restrictions of their college(s). (See items 6.4-6.4.2 for additional information for undergraduates and item 41.0 for graduate students). Students must obtain the permission of their home college on a Grading Option Application to elect the pass/fail option in a letter-graded course or a letter-grade option in a pass/fail-graded course, and submit the form to the Registrar's Office, 106 Steele Hall. University College students must obtain the

permission of the associate dean/director of Student Administrative Services and submit the completed Grading Option Application to University College Bursar and Registration Office, 700 University Avenue. Students must decide on these options within the first two weeks of classes. They may not rescind the pass/fail or letter-grade option after the deadline published in the Schedule of Classes. However, the course may be dropped in accordance with the drop procedure.

IV. Academic Standing (Sec.9.0-12.2.2)

9.0 Dean's List

Full-time students are eligible for the dean's list of their home college at the end of each semester. The minimum GPA necessary for the dean's list for each college is as follows:

<i>School or College</i>	<i>GPA</i>
Architecture	
(in 12-14 letter-graded credit hours taken on campus)	3.5
(in 15 or more letter-graded credit hours taken on campus)	3.2
Arts and Sciences	3.4
Education	3.4
Engineering and Computer Science	3.4
Human Ecology	3.4
Information Studies	3.4
Management	3.4
Public Communications	3.4
Visual and Performing Arts	3.4

Arts and Sciences, Education, Engineering and Computer Science, Human Ecology, Information Studies, Management, Public Communications, and Visual and Performing Arts A minimum of 12 credit hours of letter grades with no missing or Incomplete grades is required to be on the dean's list.

University College UC students are eligible for the dean's list at the end of each semester (excluding summer) if they earn a 3.4 GPA in the last 12 credit hours taken and have been enrolled in consecutive semesters.

10.0 Academic Probation

A student whose semester or cumulative GPA falls below 2.0, or who fails to meet additional criteria for good academic standing established by the school or college, may be placed on probation. Each school or college reviews its students' records and determines the appropriate probation actions to be applied from the categories listed below. More detailed information about probation policies is available from college offices.

Students placed on probation will be advised of this action by their school or college. The probation letter will specify the criteria used in determining the probation action (e.g., cumulative GPA, number of Incompletes, etc.) and will specify the conditions under which good academic standing can be regained.

Probation action categories include those listed below. The categories are not necessarily applied sequentially. Any one of the categories may be applied at any time, depending on college policy and individual student records. An action may be applied more than once to the same student. When students have removed the deficiencies that led to their probation, they will be cleared from probation status.

10.1 COLLEGE PROBATION

This action applies to a student who has a cumulative average above 2.0, but who fails to meet other college criteria for good standing. These criteria include the following:

Architecture Term GPA less than 2.0, a term of architecture courses below 2.0, more than 12 credit hours of Incomplete or NA grades, fewer than 24 credit hours completed in a 12-month period, or insufficient progress toward degree.

Arts and Sciences Semester GPA below 2.0.

Education Excessive number of Incompletes, missing grades, and/or limited progress toward degree. Students at or below a 2.0 cumulative GPA may be placed on a one-term trial (OTT) at any point in time. Inclusive Elementary and Special Education and Art Education and Secondary Education programs: cumulative, content, or education course GPA of less than 2.8; content or education less than 3.0 for Music Education. Physical Education: cumulative GPA below 2.8 or below 3.0 in required professional education courses. Health and Exercise Science: cumulative or major course GPA below 2.8. Selected Studies in Education: cumulative GPA below 2.8. Inclusive Early Childhood Special Education guidelines are published in the School of Education Undergraduate Handbook.

Engineering and Computer Science Term GPA less than 2.0. Less than 2.0 in all mathematics, science, and ECS courses taken at Syracuse University. Completion of fewer than 12 credit hours in one semester or 24 credit hours within any 12-month period. Failure to maintain satisfactory progress toward degree.

In addition to the above conditions, Computer Science students only: GPA of less than 3.0 in core courses.

Human Ecology Students with one or more of the following conditions will be placed on college probation: semester GPA below 2.00; excessive number of Incomplete, NA, or missing grades; and/or lack of progress toward degree.

Information Studies Excessive missing grades, Incompletes, failure to make normal progress, or failure to complete prerequisites for the following semester's registration.

Management Semester GPA less than 2.0, two consecutive semesters in which fewer than 12 credit hours are earned, or failure to meet adequate progress standards.

Public Communications GPA of less than 2.0 in Public Communications courses, or excessive missing grades or Incompletes, or semester GPA below 2.0 for two consecutive semesters, or failure to make normal progress toward a degree.

University College Legal Studies, Applied Computer Technology, B.P.S., and Credit Certificate Program students Semester or cumulative GPA less than 2.0; less than 2.0 in Legal Studies courses; excessive number of Incompletes, NA, or missing grades.

Visual and Performing Arts Semester GPA below 2.0 with Cumulative GPA above 2.0; or excessive NAs, Is, or other failure to make normal progress toward a degree.

10.2 UNIVERSITY PROBATION

Any student who has a cumulative GPA of less than 2.0 and for whom a more serious action is not appropriate may be placed on University probation.

10.3 PROBATION, ONE-SEMESTER TRIAL

This action applies to a student who has serious deficiencies in progress toward degree requirements, as defined by the student's college. In most cases, such students will have a cumulative GPA of less than 2.0. Students put on this type of probation usually must fulfill certain requirements by the end of the semester or face possible suspension. Each college's standards are available at the college dean's office.

10.4 INELIGIBLE TO CONTINUE

This action may be applied in situations requiring cancellation of early registration and/or prevention from participation in registration for new coursework until certain criteria are met (e.g., removal of Incompletes, repeating of required courses). It may also apply in situations where full-time status is no longer allowed, but part-time status is permitted. A student who is ineligible to continue may have a GPA either above or below 2.0.

11.0 Academic Suspension

Students face academic suspension for failing to meet the conditions established by any previous probation action or for seriously departing from standards required for good standing. Academically suspended students are officially withdrawn from the University. A student who is academically suspended will have her or his next semester registration cancelled or prevented, and future semester registrations not allowed, unless (1) that student is accepted through readmission and transfer to another SU school or college (if such a transfer is approved, a new registration or registration adjustment will be required); or (2) if, after one year away from the University, the student is readmitted to the school or college making the suspension. (See section 12.2 for restrictions on readmission.) College academic suspension may take place in situations in which the GPA is either above or below 2.0.

11.1 Students will be advised of this action by the school or college. The suspension letter (electronic or print) will specify the criteria used in determining the action (e.g., cumulative GPA, number of Incompletes) and will advise of appeal procedures.

12.0 Academic Actions

12.1 LEAVE OF ABSENCE AND WITHDRAWAL

Students who intend to leave the University before completing degree requirements should file an Official Withdrawal/Leave of Absence form, whether they intend to return to the University or not. That process is initiated in the home college dean's office.

Students who are suspended from the University for academic or disciplinary reasons will be officially withdrawn from the University. The suspending college or the Division of Student Affairs initiates the official withdrawal in this instance. Students may also be withdrawn by the University for medical reasons. Officially withdrawn students lose their matriculation status. That status may be reinstated if the student subsequently meets all requirements for readmission to the University.

Students who take a leave of absence or are withdrawn from the University have that action and its effective date recorded on the transcript. The transcript notation for Leaves of Absence is "Leave of Absence - Student Initiated," and for Withdrawals, "Withdrawal - University Initiated." For financial and academic purposes, the effective date is the date the form is approved by the home college or the day after the end of the current semester, whichever is later.

The notation "Discontinuation—non attender" will appear on the records of students who do not register and do not notify the University that they have left. Students who leave without notifying the University after the semester begins will continue to incur tuition, room, board, and other charges. Course registration will remain on the transcript record, and any grades or grading symbols submitted by faculty will also appear on the transcript.

Students intending to leave the University must inform

1. the Office of Financial Aid and Scholarship Programs, 200 Archbold North;
2. the Office of Housing, Meal Plan, and I.D. Card Services, if they reside in University housing or have a University meal plan;
3. the Stutzker Center for International Services, 310 Walnut Place, if they are international students;
4. Student Administrative Services, 700 University Avenue; 315-443-3261, if they are part-time University College students; and
5. the English Language Institute, if it issued an I-20 to the student.

Related Procedures University I.D. cards are activated upon registration, therefore students are encouraged to retain their I.D. cards if they plan to return to the University.

12.1.1 Leaves of Absence for Medical Reasons Students taking a leave of absence from the University for medical reasons must go through the Office of Student Assistance, 306 Steele Hall, and obtain approval of Health Services and/or the Counseling Center, for a medical leave of absence to take effect. In addition, except in extraordinary circumstances, the student must participate in an exit interview with the Office of Student Assistance, 306 Steele Hall, prior to departure. If extraordinary circumstances exist, then the student may apply to the appropriate unit for consideration of retroactive approval of a medical leave of absence. Such application must be made within 60 days of the student's last date of class attendance.

12.1.2 Enforced Medical Withdrawal Enforced medical withdrawal may occur where the senior vice president and dean of student affairs, or one or more of their designees, including the director of judicial affairs and the director of health services, determines that an enforced medical withdrawal should occur in response to behavior that has its basis in a psychological or other medical condition, including, but not limited to: situations in which a student fails to attend and participate actively in an appropriate assessment or educational program and/or other intervention intended to address the student's medical condition; and situations in which a student engages in behavior that poses a significant health or safety risk to the student or others.

12.1.3 Financial Implications of Leaves and Withdrawals See Table F and Tuition, Fees, and Related Policies for the complete statement of the University's policy and requirements for refunds for withdrawals and leaves of absence. Students must initiate the request for refund in all cases, including those actions taken for medical reasons.

12.1.4 Academic Implications of Leaves and Withdrawals If a student is withdrawn or takes a leave of absence before the academic drop deadline, all courses are dropped from the transcript. After the academic drop deadline through the withdrawal deadline, courses for which the student was registered remain on the transcript and grades of WD are recorded. After the withdrawal deadline, an F grade is recorded for all courses unless an approved petition has been filed with the office of the dean of the student's home college. (See Table F.)

Students who take a leave of absence or who are withdrawn cannot receive Incomplete grades in courses for which they were registered. Only grades of WD or F can be recorded on the transcript.

Students who register for a future semester and are later withdrawn or take a leave of absence for that semester will have that registration cancelled.

12.1.5 Military Leaves of Absence Undergraduate students being activated by the military should go to the home college dean's office to initiate the leave of absence procedure. Graduate students should do this through their academic departments. The dean's office or academic department will advise students about their option to drop courses, take class standing grades, or to take Incompletes, as well as the academic implications of these options.

TABLE F EFFECTS ON TRANSCRIPTS AND TUITION OF DROPS, WITHDRAWALS, LEAVES OF ABSENCE, AND WITHDRAWAL FROM THE UNIVERSITY

Action	Date	Effect on Transcript	Effect on Tuition and Fees
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Drop a course, take a leave of absence or withdrawn from the University	On or before the financial drop deadline (in fall and spring, three weeks from the first day of classes)	Course(s) dropped	All charges, except the nonrefundable portion will be refunded.¹
Drop a course, take a leave of absence, or withdrawn from the University	After the financial drop deadline and on or before the academic drop deadline³	Course(s) dropped	For individual dropped courses, all charges remain. For leaves and withdrawals, see footnote.¹
Withdraw from a course, take a leave of absence, or withdrawn from the University	After the academic drop deadline and on or before the course withdrawal deadline	Course(s) remain(s) on transcript with withdrawal (WD) grading symbol²	For individual courses, all charges remain. For leaves and withdrawals from the University, see footnote.¹
Take a leave of absence or withdrawn from the University	After the course withdrawal deadline	All courses graded "F"²	See footnote.¹

¹ Federal regulations governing refunds require careful review. Please see the -2010-2011 Tuition, Fees, and Related Policies bulletin for accurate details.

² Courses with an end date prior to the effective date of the leave of absence or withdrawal may be graded.

³ University College students should consult the Part-Time Studies Course Schedule for interim dates and deadlines.

12.2 READMISSION/TERMINATION OF LEAVE OF ABSENCE

Students on a leave of absence who wish to return to the University must apply for readmission. Readmission is dependent upon space availability in the college and program to which the student seeks readmission. To obtain an application for undergraduate readmission, contact the Office of Student Assistance, 306 Steele Hall, Syracuse NY 13244-1120; 315-443-4357. University College students may obtain an application for undergraduate readmission by contacting Student Administrative Services, 700 University Avenue, Syracuse NY 13244-2530; 315-443-3261.

Readmission for students withdrawn for academic or disciplinary reasons is subject not only to space availability, but also to satisfaction of additional requirements specified in the terms of the withdrawal and the restrictions of particular colleges and programs.

If the leave or withdrawal from the University was for medical reasons, the student must be approved for readmission by the office (e.g., Health Services, Counseling Center, Office of Judicial Affairs, Dean of Students Office) that originally authorized the student's departure.

A student who is applying for readmission to a degree program in which requirements have changed since the time of withdrawal or leave of absence may be required to satisfy the requirements of the program of study as currently defined. The responsible academic unit will review the student's transcript for final determination of the requirements to be fulfilled.

Undergraduate students accepted for readmission after an absence of seven years who meet eligibility criteria may apply for Academic Renewal. (See item 3.0.)

No student may be readmitted until all prior Syracuse University financial obligations and disciplinary actions have been satisfied.

Readmitted students are eligible to register for the upcoming semester during the regular registration period in the prior semester or on the registration day(s) for new students at the beginning of the semester.

12.2.1 Any student previously matriculated in an undergraduate degree program in any college of the University is eligible to apply for readmission. (Note: Students from Utica College and SUNY College of Environmental Science and Forestry must file an application for admission with the SU Office of Admissions.) A student withdrawn for academic reasons is eligible to apply for readmission after at least one calendar year has elapsed from the date of the withdrawal, except in those colleges noted below. A student suspended for any reason is eligible to apply for readmission according to the terms of the suspension. Students may be placed on academic probation for the first semester after reentering the University.

Students who left the University but who did not file an official Leave of Absence and who wish to return must follow the formal readmission procedure.

Readmitted students regain their matriculation status, except those readmitted to University College as "special students" (see section 12.2.2 below). *Arts and Sciences, Education, Public Communications, College of Human Ecology, and Visual and Performing Arts* Students suspended for academic reasons are eligible to apply for readmission after one academic (not calendar) year has elapsed from the date of the withdrawal.

12.2.2 Special Student Status Students who are academically dismissed from a Main Campus college may apply for readmission and transfer to University College as special students. Acceptance of such applications is at the discretion of University College and the college from which the student was dismissed.

Special students are limited to a maximum registration of six credit hours in their first semester at University College. After earning a minimum of 12 to 15 credits with a minimum cumulative GPA of 2.0, they may apply for readmission and transfer to a Main Campus college.

Arts and Sciences Students who wish to opt for the special student status must obtain permission from the College of Arts and Sciences before applying through University College. An interview and contract are required. Students must complete 15 credits as a special student (dematriculated) and obtain a cumulative GPA of 2.0 in order to apply for readmission to a Main Campus college.

V. Degrees & Degree Programs (Sec.13.0-13.6.2)

13.0 The list of approved programs of study, the types of degrees conferred, and the minimum number of credit hours required for each degree can be found in the "Programs Offered and Degrees Conferred" section of the undergraduate course catalog. Generally, students must complete a prescribed course of study and minimum number of credit hours to complete a degree program. In addition to completing degree requirements within a college, students must complete all requirements of at least one major program of study within that college in order to be eligible for a degree. Minors may also be part of a degree.

There are four types of degree programs available to undergraduate students at Syracuse University: single degree programs, single degree programs with double majors, dual degree programs, and combined degree programs.

Students normally pursue one major, within one college, with possibly a minor in either the same college or a different college. Students may have interests or goals that make it desirable to pursue either a double major or a dual or combined degree program. Before considering these possibilities, students should consult with both their academic advisor and their college dean's office. The guidelines and definition of all possible program combinations are summarized below and in Table G.

Students with Disabilities Requests for variations in degree requirements necessitated by a student's disability should be submitted to the dean's office of

the student's home college, which reviews all such requests. Requests should be accompanied by a review of appropriate documentation from the University's Office of Disability Services. (See also 8.0.2.)

TABLE G DEGREE AND PROGRAM COMBINATIONS

Degree/Program	Definition	Requirements
Combined	Two distinct degree programs pursued simultaneously. Programs may be in the same college or two different colleges; must lead to two different career objectives; and must have two distinct degree titles. Two degrees conferred. Two diplomas* awarded	Completion of 30 credits beyond usual requirements (typically 120 credits) for one degree. Fulfillment of degree requirements in both colleges, for programs involving two colleges.
Dual	Program pursued in two different colleges of the University. One degree conferred (the degree associated with the home college major). One diploma* awarded, signed by the dean of each college. Both majors are listed on the transcript. (See Table H for list of dual degree programs.)	Fulfillment of degree requirements as specified by both colleges. Fulfillment of degree requirements for a major in each college or a dually approved major.
Double Program of Study	Two programs of study (majors) pursued simultaneously in the same college or in two different colleges. One degree (from the home college) and diploma* conferred. Degree certified and diploma signed only by the dean of the home college. Both majors are listed on the transcript.	Fulfillment of all requirements for both major programs as well as requirements in the primary college.
Minor	A minimum of 18 credits, 12 of which are advanced (junior and senior work), in courses specified by an academic department or program. Minors appear on the transcript only after completion of requirements has been certified and the degree has been awarded	Election of a minor is voluntary unless specified as a requirement for graduation by the department or college

* Majors and minors are not listed on the Syracuse University diploma.

Table H DUAL DEGREE PROGRAMS

Home College	Dual College	Type of Degree*
Arts and Sciences	Education	B.A. or B.S.**
Arts and Sciences	Public Communications	B.A. or B.S.**
Education	Human Ecology	B.S.
Information Studies	Management	B.S.
Management	Public Communication	B.S.
Public Communications	Information Studies	B.S.
Visual and Performing Arts	Education	B.F.A. or B.Mus.

* The degree conferred is determined by the major within the home college, regardless of the degree label associated with the major in the dual college.
** Students pursuing a B.S. degree in Arts and Sciences must petition the department offering the major to be formally accepted as candidates.

13.1 DEGREE PROGRAM OPTIONS

13.1.1 Single Degree Program Single degree programs require the completion of all degree requirements within one college, including the requirements of one major program of study in that college. Students who complete the requirements of one major and, optionally, a minor, receive a single degree. One degree is conferred and one diploma awarded.

13.1.1.1 Single Degree Program with Double Major Two major programs of study may be pursued simultaneously in the same college or in two separate colleges of the University. Students must fulfill all the requirements for both major programs as well as all other degree requirements of their home college. One degree, certified by the home college, is conferred. One diploma, signed by the dean of the home college, is awarded. The two majors appear on the transcript.

13.1.2 Dual Degree Program Degree programs may be pursued simultaneously in two separate colleges of the University. Colleges in which faculties have approved dual undergraduate programs are listed in Table H. Students who wish to pursue other dual programs that have not been formally established must obtain the prior written permission of both deans. In cases where the academic rules and regulations of two colleges conflict, the policies of the home college take precedence.

Architecture Dual programs are not available.

University College Dual degree programs are not available with bachelor of professional studies degrees.

13.1.2.1 Students in dual degree programs must fulfill degree requirements in both colleges, as well as requirements for a major in each college (or one dually approved major). Upon certification by both colleges, one degree is conferred, i.e., the degree associated with the major in the home college.

Completion of some dual degree programs, or dual programs with multiple majors (more than two), may require more than the minimum credits required for graduation. Students interested in pursuing such programs are advised to discuss this with their home college advisors early in their academic careers.

Arts and Sciences Students enrolled in any dual degree program must earn a minimum of 90 credits in the College of Arts and Sciences. In most cases this will mean that students enrolled in any Arts and Sciences dual degree program may count only credit earned in Arts and Sciences and the other college of enrollment toward the total credit hours required for the degree. Coursework taken in any other colleges that does not count toward the 90 Arts and Sciences credit hour requirement may be considered excess credit and will appear on the transcript and will contribute to the cumulative GPA, but it will not count toward the credit hours required for the degree.

Engineering and Computer Science Completion of a second major within Engineering and Computer Science requires completion of all program of study requirements for each major, in addition to the requirements of the dual college.

13.1.3 Combined Degree Programs Combined degree programs involve concurrent pursuit of two degree programs resulting in two distinct degrees and two diplomas. The combined programs may be two undergraduate degree programs or an undergraduate and a graduate degree program. Programs available as dual degree programs (see Table H) are not available as combined degree programs. Two degrees and two diplomas are conferred in combined degree programs.

13.1.3.1 Combined Undergraduate Degree Programs Concurrent admission to a second undergraduate degree program is constrained by the New York State Education Department's restrictions regarding second undergraduate degrees and review by the University registrar (see item 13.2). Students admitted to a second undergraduate degree program must fully meet the requirements for both degrees and complete at least 30 credit hours beyond the normal requirements for one of the degrees (this may be either the degree with the higher or lower credit hour requirements, based on the colleges' determination). The awarding of the second degree may be either concurrent with or subsequent to the awarding of the first.

There is one formally established combined program:

Arts and Sciences and Engineering and Computer Science B.A. (or B.S., by petition) in Arts and Sciences and B.S. in Engineering and Computer Science. Students who wish to pursue other combinations of undergraduate degree programs must obtain the prior written permission of both deans.

13.1.3.2 Combined Undergraduate and Graduate Degree Programs As with the combined undergraduate degrees, students must fully meet the requirements for both degrees. The undergraduate degree is awarded before completion of the graduate degree.

13.1.3.2.1 Combined Undergraduate and Non-Law Graduate Degree Programs Students are accepted for graduate study after completion of the third year of study but are not fully matriculated as graduate students until bachelor's degree requirements have been met.

Courses taken in the fourth year of study count toward fulfillment of both undergraduate and graduate degree requirements. They are billed at the undergraduate tuition rate and appear only on the undergraduate record, and grades calculate only toward the undergraduate GPA. A block of transfer credits labeled as "transferred from SU undergraduate record" appears on the graduate record, if needed, and applies credit hours toward the graduate degree.

Formally established combined programs include:

Engineering and Computer Science B.S. and M.S. in Computer Science.

13.1.3.2.2 Combined Undergraduate and Law Graduate Degree Program In this program, students matriculate in the law program after completion of the third year of undergraduate study. Courses taken in the first year of law study count toward fulfillment of both undergraduate and law degree requirements. They are billed at the College of Law tuition rate and appear only on the law record, and grades calculate only toward the law GPA. A block of transfer credits labeled as "transferred from SU law record" appears on the undergraduate record and applies credit hours toward the undergraduate degree.

13.1.4 Other Simultaneous Pursuit of Undergraduate and Graduate Degrees In exceptional circumstances requiring approval of the graduate department and the Graduate School, undergraduate students may be formally accepted into a graduate degree program prior to completion of undergraduate degree requirements. The status of the student, i.e., whether she/he is considered an undergraduate- or graduate-level student, will be determined upon acceptance to the graduate program. For students who are considered to be undergraduates until completion of undergraduate requirements, courses which apply to the graduate degree will be flagged on the undergraduate record to remove them from calculation there, and transferred as a block of credit to the graduate record. For students who are considered to be graduate students, courses taken to fulfill undergraduate degree requirements will be flagged on the graduate record to remove them from calculation there, and transferred as a block of credit to the undergraduate record. In both cases, only the credit (i.e., not grades) for the flagged courses will be calculated on the record.

13.2 SECOND UNDERGRADUATE DEGREES

Students currently pursuing an undergraduate degree at Syracuse University or those who have previously earned a bachelor's degree at Syracuse University or another institution may or may not be admitted to a second undergraduate degree program, depending on the disciplinary and professional "proximity" of the completed and proposed programs. The New York State Education Department has ruled that "the conferral of two bachelor's or associate degrees should be reserved as a means of recognizing that a candidate has competencies in two essentially different areas: when a second degree as opposed to one degree with a double major is academically justifiable and when the second degree requires one-fourth additional work (i.e., 30 credit hours for a 120-credit hour degree)."

The University registrar, in consultation with the Office of Academic Programs and appropriate academic advisors, will decide whether admission to a second undergraduate degree program is in accord with the state education department's criteria. Students pursuing, or who have earned, a bachelor of arts degree will not be admitted to a second bachelor of arts degree program, due to the significant overlap of degree requirements. Approval for admission to a second bachelor of science degree program requires a significant difference in overall degree requirements between the two degree programs.

Students who meet these criteria must also meet all admissions requirements of the program to which they apply. A minimum of 30 credits for a second undergraduate degree must be Syracuse University credit, and cannot include Advanced Credit (AC) Examinations. SUNY ESF courses are not considered Syracuse University credit. When the second degree requires more than 30 credits, transfer and other credit may be accepted, but only to fulfill requirements in excess of 30 credits.

13.2.1 Students whose first degree was earned at Syracuse University must file an Application for Readmission, available from the admitting school or college office. (see section 12.2 for information about the readmission process). Students with first degrees from other institutions follow the normal

admission application procedure.

13.2.2 At the time of matriculation in the second undergraduate degree, any courses previously taken as a nonmatriculated student at Syracuse University will be entered on the undergraduate record, if they do not already appear there. This coursework will calculate toward credit hour and grade point totals on the undergraduate record.

The official Syracuse University transcript record for students with a prior SU undergraduate degree is cumulative, i.e., courses and grades for all undergraduate work, regardless of the degree program to which they apply, appear on one transcript with cumulative totals. The home college for the second undergraduate degree manually maintains and monitors the record of work related to the second degree. Calculations for satisfactory academic performance, honors, etc., are derived from the college or departmental records and may not be reflected on the official transcript.

Table I INTRA-UNIVERSITY TRANSFER STANDARDS

New College	Conditions
Architecture	3.0 GPA. PreCalculus is required. No midyear transfers. Interview and portfolio review required. Application deadline: Friday preceding spring break.
Arts and Sciences	The college will review applications for intra-university transfer on a continuing basis throughout the academic year. The application deadline for acceptance for the fall semester is July 1 and December 1 for the spring semester. Applicants who are making satisfactory progress and have a cumulative grade point average of 2.5 or above will be admitted to the college. Students with a current cumulative GPA below 2.5 or who are making satisfactory progress toward their degrees should submit a letter with the application, explaining the reason(s) for prior academic problems and why they believe they will be academically successful in the College of Arts and Sciences. Students with junior standing must include a plan of study form signed by their intended major department. Incomplete applications will not be considered. The director of the Student Records Office will review applications. Students will normally be notified of the results within two weeks.
Education	Minimum cumulative GPA of 2.8 for Inclusive Early Childhood Special Education, Inclusive Elementary and Special Education, Exercise Science, Health and Selected Studies in Education, and Physical Education; 2.8 for Secondary Education; 2.8 for Art Education; and 3.0 for Music Education. Students who meet department criteria will be admitted on a space available basis. An interview with the assistant director of academic advising may be required and all applications are held until the end of the semester.
Engineering and Computer Science	3.0 GPA. Applicants are required to complete at least one of MAT 295, 296, or 397 (with a grade of B or better) and science (by completing at least one set of PHY 211/221 or CHE 106/107 with a grade of B or better). Students who wish to major in computer science must also complete CIS 252 with a grade of at least a B.
Human Ecology	GPA variable depending on the major. Departments may have additional criteria. Applicants are required to discuss tentative transfer plans with the academic chair or director of the proposed program of study. Students who meet department criteria will be admitted on a space available basis. Transfer requests may be held until the end of the semester
Information Studies	Syracuse University students interested in transferring into IST must have a cumulative grade point average of 3.0 and earn at least 15 credits in courses graded A-F at Syracuse before transferring. Transfers will normally take place at the beginning of the sophomore year. (Depending upon available spaces, students with GPAs below 3.0 may be considered. However, there may be times when GPA requirements will be higher than 3.0 due to space considerations.) They must also meet other criteria as determined by the faculty of IST
Management	Applicants must earn a 3.3 cumulative GPA and 24 credits at Syracuse University, including two of the following: ECN 203, MAT 183, MAT 221, MAT 284 (or equivalent substitutes). Additional applicants may be considered as spaces become available, beginning with the highest GPA. Students should visit the Whitman Undergraduate Office (SOM 215) for additional information and advising.
Public Communication	Applicants must complete a minimum of 30 graded (not P/F) credits at SU before they are eligible for internal transfer. Admission is based upon a student's cumulative Syracuse GPA. Applicants who meet the minimum credit qualifications are rank-ordered by GPA and admitted in that order, highest to lowest, until all seats are filled. The cumulative GPA includes all courses taken at SU. The GPA required for admission varies each semester depending upon the number of spaces available and the number and strength of the applicants. Because Newhouse majors require a minimum of four semesters to complete, juniors and seniors are ineligible to transfer. (A junior is defined as a student who has earned 54 credits.) Application deadlines are December 15 for spring admission and May 1 for fall admission.
University College	GPA variable, depending on major. Probation students accepted pending the approval and recommendation of the student's home college. 2.5 GPA required for Bachelor of Professional Studies
Visual and Performing Arts	3.0 GPA. Portfolio or audition required for B.F.A. in Art and Design, Transmedia, Drama, or Music. Applications held to end of semester. For Communication and Rhetorical Studies, 3.0 GPA and interview with department chair required. Admission on a space-available basis.

13.3 DEGREE PROGRAM COMPONENTS

13.3.1 Major Program of Study Each school or college determines the number of credit hours and the particular courses or special examinations required for its major programs of study. The purpose of the major program of study is to enable the student to acquire depth of knowledge and competence in a subject area of special interest to the student. A major program normally consists of a minimum number of credit hours of advanced (junior- and senior-level) courses in a formally approved program of study.

In some colleges, students may declare a major upon admission to the college. In other colleges, students may be matriculated without declaring a major. The colleges of Arts and Sciences, University College, and Visual and Performing Arts consider the declaration of major on an application for admission, including intra-University transfers, to be unofficial. These colleges have specific procedures for being formally admitted to a major.

All students must apply for and be accepted into a major program of study by the beginning of the junior year. Students who do not officially declare a major by the start of the registration period at the end of the first semester of the junior year will be prevented from registering. (See also 21.1.5 regarding NYSTAP requirements.) Students may not earn a degree until a major program of study has been declared.

To elect a major, students must obtain formal approval from the department(s) and/or academic college. If the declaration involves an intra-University transfer (see section 13.4), an application must also be completed. Detailed information about the procedure may be obtained from the home college dean's office.

Arts and Sciences Students declaring a major are considered to be pursuing the B.A. (Bachelor of Arts) degree. Students who wish to pursue the B.S. (Bachelor of Science) degree in Arts and Sciences must petition the department offering the major to be formally accepted as a candidate. Of the upper-division credits counted toward the completion of a major, at least 12 must be Syracuse University letter-graded course work.

Management To complete a double major in Management, students complete all of the required courses for each major. Courses that are applicable to multiple majors may only be used to fulfill the requirements of one major. General Management Studies cannot be one of the majors in a double major program for Management students. The only double major combination within Management which requires completion of additional credits above the normal degree requirements is one with Professional Accounting (CPA). Double majors outside Management usually require completion of additional credits.

Management majors are not available to singly enrolled students in other colleges.

13.3.1.1 Double Majors Double majors are available in some but not all colleges. In some colleges, completion of double majors, especially when the second major is outside the home college, may require more than the minimum credits required for graduation.

Architecture Students may not have a double major.

Arts and Sciences A maximum of 6 credits of coursework at the 300-level or above may overlap between the two majors. For each major program, all but 6 credits of upper-division coursework counted toward that major must be exclusive to that major. Arts and Sciences students who pursue a major in another school or college must earn a minimum of 96 credits in the College of Arts and Sciences.

Engineering and Computer Science Completion of a second Engineering and Computer Science major within the college requires completion of all program of study requirements for each major. Students pursuing any combination of double majors where one or both are Engineering and Computer Science majors must complete the Engineering and Computer Science programs of study in their entirety.

Management Management majors are not available to singly enrolled students in other colleges. General Management Studies cannot be one of the majors in a double major program for Management students. The only double major combination within Management which requires completion of additional credits above the normal degree requirements is one with Professional Accounting (CPA). Double majors outside Management usually require completion of additional credits.

Public Communications Public Communications majors are not available to singly enrolled students in other colleges. Public Communications students may only have one major in the School of Public Communications.

University College Bachelor of Professional Studies majors are not available to students in other colleges.

13.3.2 Minors Minors may be required as part of a degree program, or they may be selected voluntarily. They provide a systematic opportunity for blending another subject area, either related or unrelated to the major, into the student's degree program. (Minors that are too closely related to a student's major may not be approved by the home college.) Before choosing a minor, students should check with their college dean's office to see whether it is possible, or required, to include a minor in the degree program. In addition, before formally seeking admission to a minor, students must consult with their dean's office (1) to determine how the minor will fit with the degree program, (2) to understand the elective trade-offs that pursuing a minor entails, and (3) to ensure that pursuing a particular minor will not violate the overall proportion of liberal arts and sciences courses mandated for the particular degree by the New York State Education Department.

Minors are either analogous to and named for existing majors, or interdisciplinary groupings of courses not represented by a major. Not all majors are available as minors. Approved minors are listed on page 28 of the Syracuse University Bulletin: Undergraduate Course Catalog. Minors require a minimum of 18 credit hours, with a normal maximum of 21 credit hours (a few require 24), 12 of which must be in advanced 300- to 400-level coursework. Some minors may specify prerequisite courses beyond the required 18 to 21 credits. Required and/or optional courses are specified by a college, department, program, or administering committee, and detailed information about what constitutes a particular minor may be obtained from the appropriate academic unit.

Arts and Sciences At least 15 of the credit hours for a minor must be Syracuse University letter-graded coursework. A maximum of 6 credits of coursework at the 300-level or above may overlap between a major and a minor, or between two minors. For each major or minor program, all but 6 credits of upper-division coursework counted toward requirements must be exclusive to that program.

Management Normally, at least 15 of the credit hours for a minor must be Syracuse University letter-graded coursework. Exceptions are granted by petition only.

University College The Legal Studies minor is not available to students in the College of Arts and Sciences.

13.3.2.1 Approval and Certification of Minors Each college provides information about eligibility and requirements for the minors it or its departments administer. For formal admission to a minor, students must obtain approval on the Declaration of Minor form from their faculty advisor, the minor coordinator, and their home college. Because of limited space in high demand courses, admission to some minors may be restricted.

Completion of a minor is certified by the student's home college, by review of the requirements. Minors are recorded on the official transcript only after the college certifies both the degree and the minor.

13.4 CHANGES TO DEGREE PROGRAMS — INTRA-UNIVERSITY TRANSFERS

Students transferring to other schools or colleges within the University (intra-University transfer) must meet the admissions requirements of the new school or college that were in effect at the time of the student's matriculation into the University. Requests by matriculated undergraduate students to transfer to a different home college or to enroll in a second or dual college are initiated in the new primary college office. Such requests should be made well in advance of the succeeding semester so that the application can be acted upon before the new semester begins. Schools and colleges within the University have different deadline dates for intra-University transfers. In addition, students who participate in registration the semester before classes begin must meet the transfer deadline of the new college if they plan to meet course restrictions. However, some colleges may not permit such transfers before the end of a semester, after early registration. Students should check with the office of the dean for these deadline dates. Requests for transfers submitted after the announced deadline will not be effective until the following semester. Refer to Table 1 for college-specific information.

Full-time students transferring to University College may register for up to 11 credit hours during the first semester after the transfer. Students registered in a Main Campus college during the spring semester may not transfer to University College for the purpose of summer study.

Determination of the acceptance of credits already completed is at the discretion of the new college of enrollment.

13.5 RESIDENCE REQUIREMENT

All Syracuse University students must complete a minimum number of credit hours at Syracuse University in order to be granted its degree. Advanced Credit (AC) Examinations may not be applied toward the residency requirement.

Undergraduate students must take at least 30 credit hours of coursework at Syracuse University in order to be granted its degree. In most cases, students have to earn more than 30 credit hours at Syracuse to satisfy degree requirements. Each school or college may determine the number of credit hours requisite for the completion of a degree. SU courses taken while a student is matriculated at ESF do count toward the residency requirement. ESF courses taken while a student is matriculated either at ESF or Syracuse University do not count toward the SU residency requirement.

While it is not necessary that the last 30 credit hours for a degree be taken in residence, students should discuss completion of remaining requirements

with the home college before leaving. A petition may be required. Work necessary to complete a major must be completed at Syracuse University unless a waiver is granted by the appropriate major department.

University College Students earning Associate's degrees, bachelor of arts in liberal studies degrees, or bachelor of professional studies degrees must complete a minimum of 30 credit hours of Syracuse University coursework while enrolled as part-time students at University College. Credits earned at Syracuse University while enrolled as a full-time student do not count toward this requirement.

13.6 DEGREE CERTIFICATION

Students who complete all degree requirements in their program(s) of study in their home college (and dual college, where applicable) are granted a degree and issued a diploma by Syracuse University. The degrees conferred by the University and the minimum number of credit hours required for each degree are listed in both the undergraduate and graduate catalogs. When a college offers more than one type of degree, students should check with the college to determine the different requirements for each degree.

Any course not accepted by a school or college as an integral part of a degree program is prohibited by New York State Department of Education regulations from being credited toward graduation requirements. The list of courses that fall into this category varies, depending upon specific degree requirements. Therefore, the student is advised to check with the respective dean's office before registration.

Only students who file a diploma request are reviewed for degree certification. School/college officials certify the completion of degree requirements to the Registrar's Office (see section 13.6.2). This process generally takes four to six weeks after completion of requirements. The Registrar's Office awards the degree for the official degree date following the completion of degree requirements. The degree award dates fall in the months of May, June or July, August, and December.

The University Senate recommends to the Board of Trustees of Syracuse University the conferring of appropriate degrees on the annual commencement date each year upon those candidates who have qualified for such degrees by the official degree dates in June/July, August, and December of the previous year and May of the current year. (Note: Participation in convocation and commencement ceremonies does not imply that degree requirements have been completed.)

Once a degree is conferred, the transcript may not be changed except for administrative error, subsequently discovered fraud or academic dishonesty, or assessments that more accurately represent academic work completed prior to degree certification. In extreme cases, such changes may include the rescinding of a degree. (See section 6.2.2 on Incompletes and 6.5 on Missing Grades.)

A minimum cumulative GPA of 2.0 is necessary to graduate and receive a diploma from Syracuse University.

Main Campus Colleges All graduating seniors must schedule an appointment for a degree check with the appropriate official in their home college dean's office during the first semester of their senior year to ensure that all requirements will be fulfilled.

All University College students must schedule an appointment for a degree check with the appropriate official in the Office of Student Administrative Services at 700 University Avenue. University College Architecture, Engineering and Computer Science, and Public Communications students must schedule an appointment with their respective college.

13.6.1 Honors Exceptional academic achievement is recognized by the University through various honors.

13.6.1.1 University Scholars A group of 8 to 12 academically outstanding graduating seniors are designated each year as Syracuse University Scholars. Students are selected by a University-wide faculty committee from candidates nominated by the schools and colleges in the following process. Each school and college nominates academically outstanding students according to criteria developed within that college or school. Each school or college may nominate a minimum of two and as many as one student per every 100 students in its graduating class. Nominees submit a portfolio of appropriate supporting documents. Information on the selection process, including nominating forms, guidelines for student portfolios, and criteria for evaluation of co-curricular activities, is available in the college deans' offices.

Each school and college selects one nominee per 100 (or fraction thereof) graduating seniors and forwards these nominations, plus supporting documents, to the Senate Committee on Academic Affairs.

The Selection Committee, appointed by the Senate Committee on Academic Affairs, will select 8 to 12 Syracuse University Scholars from among the candidates. It will also select one of the University Scholars to give a commencement address.

13.6.1.2 Renée Crown University Honors Program Diplomas and transcripts of students who have completed the requirements of the Honors Program will include the notation "Renée Crown University Honors."

13.6.1.3 University Honors Students who achieve superior cumulative GPAs are eligible to receive their degrees with University honors.

	GPA Requirement
Cum laude	3.2 for Architecture; 3.4 for all other colleges
Magna cum laude	3.5 for Architecture; 3.6 for all other colleges
Summa cum laude	3.8

These honors will be imprinted on transcripts and diplomas after degree certification. Students should check with the office of the dean of the home college to determine how the GPA will be determined. Generally, physical education skills courses and ROTC credit are not included in calculating University honors. A minimum of 60 credit hours taken at Syracuse University is required for University honors. Cumulative GPA requirements for these honors must be exactly at or above those noted above; no rounding off is permitted.

Arts and Sciences, Information Studies University honors are based on a minimum of 60 credit hours of letter-graded courses taken at Syracuse University.

University College Associate degree recipients are not eligible for University honors.

13.6.1.4 Departmental Distinction Distinction in particular programs of study is earned by students who have met the specific criteria for distinction in their major. Departmental or program distinction recognizes exceptional achievement that exceeds the normal expectations for graduates of that program and is noted on the transcript.

13.6.2 Diplomas Students are expected to provide their expected degree date by filing a diploma request at myslice.syr.edu no later than the beginning of their last semester of study. Diplomas are ordered after degrees have been certified by the schools and colleges and posted by the Registrar's Office. An additional four to six weeks after degree certification should be allowed for receipt of the diploma. Syracuse University reserves the right to withhold diplomas of financially delinquent students or at the request of the Office of Judicial Affairs. There is a charge for replacement diplomas.

VI. Student Status (Sec.14.0-17.1.2)

14.0 Class Standing

Class standing is determined by the number of credit hours passed. Credit hours not completed or completed unsuccessfully do not count toward the number of credit hours used to calculate class standing. The number of earned credit hours required for each class is as follows:

Freshman	0-23
Sophomore	24-53
Junior	54-83
Senior	84 and above

15.0 Matriculated Students

A matriculated student is defined as one who has applied for, been formally admitted to, and has registered in a degree- or certificate-granting program registered by Syracuse University with the New York State Education Department. Students must be matriculated to receive a degree, certificate, or diploma from the University. Students who are withdrawn from the University become nonmatriculated. Upon readmission they regain their matriculation status, except undergraduate students readmitted through University College with special student status (see section 16.0.1).

16.0 Nonmatriculated Students

Nonmatriculated students have not been formally admitted to the University. Students not formally admitted to the University who have not previously earned a bachelor's degree are considered to be nonmatriculated undergraduates. Students not formally admitted to the University who have previously earned a bachelor's degree, at Syracuse University or elsewhere, are considered to be nonmatriculated graduate students, whether registering for graduate or undergraduate courses.

Nonmatriculated students may register for Syracuse University courses through University College. However, registration in courses does not imply that a student is matriculated, since matriculation can only be achieved by being formally admitted to a degree program at the University. Students who are officially withdrawn are no longer considered to be matriculated. Students who take an official leave of absence maintain their matriculation status.

16.0.1 Special Student Status Students who are academically dismissed from a college and accepted by University College as special students are considered to be nonmatriculated (see section 12.2.2.).

17.0 Enrollment Status

A student is considered enrolled at the University until one or more of the following occurs: (1) the student graduates; (2) the student notifies the Office of Student Assistance, the Graduate School, or (UC students only) the Office of Student Administrative Services at University College of the intention to take a leave of absence from the University; (3) the student is withdrawn from the University for academic, medical, or disciplinary reasons; (4) the student fails to register; or (5) the student's registration is cancelled by the University for financial or other reasons.

17.1 FULL-TIME AND PART-TIME STATUS

A determination of a student's full-time or part-time status is based on the number of credit hours for which the student is registered in a given semester. Students who meet Syracuse University's requirements for full-time or part-time status may not meet requirements for such status as defined by other agencies or institutions. Conversely, students who do not meet the University's requirements for full- or part-time status may be considered full-time or part-time by other agencies. The University's certification of a student's status is based solely on the criteria stated below.

Statements concerning student status are prepared by the Registrar's Office, 106 Steele Hall. Statements can be provided for current and past semesters and summer sessions, but not for a future semester or session.

Satisfaction of one of the following criteria confers full-time or part-time academic status on an undergraduate student during a given semester. These criteria are used for the purpose of enrollment certification. Separate criteria apply for the calculation of tuition and fees (see Tuition, Fees, and Related Policies). Separate criteria also apply for certain types of financial aid.

Credits associated with audited courses do not count toward the calculation of enrollment status.

17.1.1 FULL-TIME STUDENTS

Registration for 12 or more credit hours confers full-time academic status on an undergraduate student during a given semester. For purposes of enrollment certification, the two summer sessions combined are the equivalent of one semester.

Engineering and Computer Science Students registered in the Cooperative Education program for zero hours in semesters when they are on work assignments are considered to be full time.

17.1.2 PART-TIME STUDENTS

All other undergraduate students enrolled for fewer than 12 credit hours are considered part-time students.

The number of credit hours carried by a part-time student may affect eligibility for University housing and financial aid. For purposes of financial aid, students registered for 6-11 credit hours are considered half-time students; students registered for 0 to 5 credit hours are considered less than half time.

VII. Academic Programs (Sec.18.0-20.0)

18.0 Syracuse University Internship Program (SUIP)

Students from most academic areas of the University may participate in credit internships coordinated by the central Syracuse University Career Services office, subject to the requirements and provisions of the schools and colleges in which they are enrolled.

Students who wish to participate in local or national internships coordinated by Career Services must apply and be accepted for an internship before they will be permitted to register. Students may submit registration documents during the semester before they plan to intern, or during the first three weeks of the semester in which they wish to participate. A Proposal for Independent Study Courses form, approved by a faculty sponsor with expertise in the internship concentration, must be submitted. Students accepted for internships must also submit supplemental internship information to Career Services on or before the semester registration deadline.

Elective credit internships may be taken for between one and six credits, with each credit requiring 45 hours at the internship site. The number of credits to be earned must be approved by the intern's school or college, and internships registered with departmental prefixes usually receive letter grades.

Students registering for University credit are required to do so during the semester or summer session in which they participate in internships. Retroactive credit cannot be granted. Undergraduate students paying regular full-time tuition may include internship credit in the registration for a normal fall or spring schedule (i.e., 12 or more credit hours per semester up to and including 19 credit hours) without incurring additional tuition charges.

Application and registration procedures are managed by Career Services. However, representatives of host organizations screen all applicants and are responsible for the final selection of interns.

Failure to comply with program and/or host organization policies and procedures may result in the loss of the internship and may jeopardize future participation.

Students should consult with their respective deans' offices before registration concerning special rules and regulations for internship programs.

19.0 Syracuse University Abroad (SU Abroad)

Syracuse University students may apply to Syracuse University Abroad to study overseas at one of the centers sponsored by the University and administered by SU Abroad (or, if qualified, to be placed in foreign institutions). Students should consult their advisors early to determine how a semester or year abroad would complement their academic programs in order to meet degree requirements.

All courses taken at SU Abroad centers are listed on students' transcripts. Credit hours and grades are computed in the GPA in the same manner as any other Syracuse University courses. Courses taken through SU Abroad at foreign institutions may be listed on students' transcripts with credit hours and grades computed in the GPA in the same manner as any other Syracuse University course, or as transfer credit, as determined by SU departmental review. Matriculated students who plan to study abroad through a program not directly sponsored or administered by SU Abroad must contact an SU Abroad counselor at least three months before the start of the program if they intend to apply for federal financial aid, which requires a consortium agreement (see items 7.2.2.2 and 21.5 on consortium agreements).

Syracuse University students accepted into an SU Abroad program must make arrangements with their home colleges before they go abroad to complete a MySlice registration form listing the courses they plan to take in the semester when they return to campus. Before they go abroad, students must contact the designated official in their home colleges to obtain any college-specific instructions for participating in the online early registration during their

scheduled time while they are overseas.

Arts and Sciences, Education, and Human Ecology Students must have all course approval petitions signed before going abroad. Major and minor classes must be approved first by the student’s minor/major advisor. The College of Arts and Sciences considers courses with the department prefix of IPA (International Program Abroad) as non-Arts and Sciences credit.

Visual and Performing Arts Newly matriculated transfer students cannot enroll in the SU Abroad program during their first semester in attendance at the University.

London Center Program Students enrolled in the SU Abroad London Center Program may not register for more than 16 credits during the online registration period. Those who want to register for additional credits during their London semester may add a class during the schedule adjustment period in London. Registration for more than 19 credits is not allowed except by permission. (See Section 8.0.4.)

20.0 Renée Crown University Honors Program

The Renée Crown University Honors Program is a selective, demanding, and rewarding program for outstanding students who seek intense intellectual challenge and are prepared to invest the extra effort it takes to meet that challenge. It is marked by four distinguishing characteristics:

- heightened expectations;
- participation in a vibrant and active community of learners;
- intensity of intellectual experience;
- special intellectual opportunities and responsibilities.

The program is open to qualified students from all undergraduate majors at Syracuse University. Its requirements, supplemental to those of their majors, stipulate that they demonstrate the attributes of depth, breadth, command of language, global awareness, civic engagement, and collaborative capacity. Detailed program requirements can be found under “Other Programs and Colleges” in this bulletin.

VIII. Academic-Related Rules & Regulations (Sec.21.0-22.3.2)

21.0 Academic Standing And Eligibility For Financial Aid

21.1 NEW YORK STATE AID

The New York State Education Department regulations regarding eligibility to receive TAP (Tuition Assistance Program) and all other New York State scholarships and awards require two elements: program pursuit and satisfactory academic progress. Program pursuit requires a student to enroll in a specific number of credit hours each semester and to earn a specific number of credit hours for that semester; satisfactory academic progress requires a student to accumulate a certain number of credit hours while progressing through a degree program and to maintain a progressive GPA during this time.

The two elements of program pursuit and satisfactory academic progress must be met for each semester of study in which state aid is received. All following references to eligibility requirements for TAP aid also apply to all other New York State scholarships and awards.

21.1.1 Program Pursuit for TAP Aid Any student receiving New York TAP funds must maintain registration as a full-time student (see sections 17.0-17.2 for) each semester. The student is required to earn a passing or failing grade (see section 6.1-6.2) in a defined percentage of a full-time course load to be eligible to retain TAP funds. The number of credit hours that must be completed depends on the year of the student’s TAP award, not on the year of enrollment. In most instances, the two will coincide. Refer to Table J.

Retaken courses in which an acceptable passing grade has already been received cannot be included as part of the student’s minimum full-time or part-time course load for TAP purposes. Retaken courses may be included when (1) a failed course is repeated or (2) a passing grade was received, but the course must be retaken because the original grade was unacceptable in a particular curriculum. Repeatable courses, i.e. courses that can be taken and counted more than once toward fulfillment of degree requirements, are also acceptable.

21.1.2 Satisfactory Academic Progress for TAP Aid To remain eligible for TAP funds, a student must earn credits and obtain a minimum cumulative GPA according to the schedule in Table J. As with program pursuit, this progress is based on the number of TAP payments. These standards of satisfactory progress will be used to determine continuing eligibility for state aid to students who have no “special circumstances.” The progress of students with special circumstances, such as those who have transferred from other institutions, have used their waivers, or have received TAP awards before September 1981, will be monitored on an adjusted schedule. When the quantitative and qualitative criteria specified in Table J are not applicable, determination of satisfactory academic progress shall be made by the Office of Financial Aid and Scholarship Programs.

21.1.3 Transfer Students Receiving TAP Aid Transfer students must have their credits evaluated by their colleges to be placed at the proper point on Table J for certification.

21.1.4 Reinstatement of TAP Aid Eligibility Students found ineligible to receive their next TAP payment may have their eligibility restored by one of the following methods: (1) Any student claiming such circumstances must present to the Office of Financial Aid and Scholarship Programs a written appeal detailing the extenuating or mitigating circumstances and, where applicable, corroborating documentation. (2) Making up the deficiencies without a TAP award. (3) Being readmitted after an absence of at least one calendar year.

21.1.5 Declaring a Major The New York State Department of Education requires that all students receiving TAP must declare an official major by the beginning of the junior year of a bachelor’s program in order to continue receiving TAP payments. Students who declare a major after the start of classes in the junior year will not be eligible for TAP until the following semester.

Table J New York State Aid Eligibility Progress Table for Undergraduate Students

TAP Payment Number 1	1	2	3	4	5	6	7	8	9 ³	10 ³
Minimum number of new credit hours for which student must be enrolled ²	12	12	12	12	12	12	12	12	12	12
Number of credit hours that must have been completed the preceding semester ^{2, 4, 5}	0	6	6	9	9	12	12	12	12	12
Total number of earned credits ⁴	0	3	9	21	33	45	60	75	90	105
Minimum cumulative GPA	0.0	1.1	1.2	1.3	2.0	2.0	2.0	2.0	2.0	2.0

1 Tuition Assistance Program (TAP—N.Y. residents only) These awards are based on payments, not semesters. Example: To receive the second payment, you must enroll for 12 credits and have completed at least 6 credits with a passing or failing grade during the preceding semester. You must also accrue 3 credits and have a minimum grade point average of 1.1.

- 2 Courses repeated to improve grades do not count.
- 3 Only students enrolled in the HEOP program or in approved five-year bachelor's programs are eligible for 10 TAP payments. The only currently approved five-year programs at Syracuse University are the B.A. in Architecture and the B.I.D. in Industrial Design.
- 4 Incomplete and failing grades are included in the number of credit hours completed per semester. Only passing grades are included in the number of credit hours earned. Example: A student applying for the sixth TAP payment must (1) be registered for at least 12 new credit hours, (2) have completed 12 credit hours the preceding semester, (3) have earned 45 credit hours, and (4) have a cumulative 2.0 GPA.
- 5 Part-time students at approved schools in New York State who were first-time full-time freshmen in 2006-2007 may be eligible for part-time TAP beginning in 2007-2008. Part-time TAP is not the same as Aid for Part-time Study.
 - In addition to the existing TAP eligibility rules for full-time students, to be eligible for part-time TAP, a student must:
 - be a first-time freshman in the 2006-2007 academic year or thereafter;
 - have earned 12 credits or more in each of two consecutive semesters, for a minimum total of 24 credits; and
 - maintain a minimum C average.

21.2 FEDERAL FINANCIAL AID

All students who receive funds from any federal aid program (Pell Grant, Supplemental Educational Opportunity Grant, College Work-Study, Perkins Loan, Stafford Loan) must maintain satisfactory academic progress as determined by established federal guidelines. Academic progress is defined as earning a minimum number of credit hours over a specific number of semesters and maintaining a minimum GPA.

21.2.1 Undergraduate Students in Four-Year Bachelor's Degree Programs A maximum of six academic years is permitted to complete bachelor's programs normally considered to be four academic years in length. For continuing federal financial aid eligibility, students must earn at least 40 credit hours by the end of their second academic year. (Note: For the purpose of this regulation, an "academic year" is defined as each multiple of two consecutive regular semesters—fall and spring—in whatever chronological order they occur, regardless of intervening summer sessions, tracked from the student's date of matriculation.) In subsequent years, a student must maintain an average of 20 earned credits per academic year. Undergraduate students must have a minimum cumulative GPA of 2.0 upon completion of 100 credit hours (including transfer credits) to continue to receive federal financial aid.

21.2.2 Undergraduate Students in Five-Year Bachelor's Degree Programs A maximum of seven academic years is permitted to complete bachelor's programs normally considered to be five academic years in length. All other eligibility requirements remain the same as outlined in section 21.2.1, above.

21.2.4 Monitoring of Progress for Federal Financial Aid Eligibility Students failing to comply with the above progress requirements will be ineligible to receive federal financial aid in the succeeding academic year. The Office of Financial Aid and Scholarship Programs will notify students of their status in cases where aid is cancelled or withdrawn. Students may regain eligibility in one of the following ways: (1) enroll in courses without receiving financial assistance until the deficiencies are made up, (2) submit an appeal based on extenuating circumstances to the Office of Financial Aid and Scholarship Programs (a student may receive only one appeal), (3) petition the Financial Aid Office in writing to re-instate eligibility after a period of non-enrollment of at least one academic year.

21.2.5 Consortium Agreements Syracuse University has formal consortial arrangements with other institutions only through Syracuse University Abroad (SU Abroad), the Consortium for Culture and Medicine, and the Graduate Scholar Exchange Program. Matriculated students who plan to study abroad through a program not directly sponsored or administered by SU Abroad must contact an SU Abroad counselor at least three months before the start of the program if they intend to apply for federal financial aid, which requires a consortium agreement. Matriculated students enrolled in another institution through programs other than SU Abroad programs, the Consortium for Culture and Medicine, or the Graduate Scholar Exchange Program are not eligible for financial aid through Syracuse University.

21.3 UNIVERSITY FINANCIAL AID

Any student who does not meet the academic progress requirements to maintain eligibility for federal financial aid as outlined in Section 21.2 will also lose his or her eligibility for any Syracuse University scholarship and/or grant.

22.0 Athletic Eligibility

All Syracuse University student athletes who practice for or compete in official intercollegiate events must comply with the eligibility rules defined below. These rules are in compliance with all NCAA regulations and have been agreed upon by the administration of the University. The status of each student athlete's eligibility must be reviewed before any official athletic participation. Any student-athlete found to be ineligible will be barred from further athletic involvement until compliance with the rules is established. In addition, ineligible grant-in-aid recipients are potentially liable to lose their financial awards. Questions about NCAA regulations should be directed to the Office of Athletic Compliance in Manley Field House.

22.1 ELIGIBILITY

Eligible means a student-athlete is in compliance with the standards stated in this section and is allowed to participate in intercollegiate athletics without restriction.

22.1.1 First-Year Eligibility First-year eligibility requires the following criteria to be met: The student-athlete must meet the admissions criteria for the specific school or college at the University; must be in compliance with all NCAA initial eligibility requirements; and must be matriculated on a full-time basis (12 credits constitutes a minimum full-time load).

22.1.2 Second-, Third-, and Fourth-Year Eligibility Second-, third-, and fourth-year eligibility requires that the student-athlete must be enrolled on a full-time basis in one of the schools or colleges of the University and must have satisfactorily met all NCAA requirements for normal academic progress toward a degree.

22.2 FACTORS AFFECTING ELIGIBILITY

22.2.1 Transfer Students Transfer students from either two- or four-year colleges may be immediately eligible to practice and compete if they complete the admissions process, matriculate as full-time students, and satisfy all NCAA regulations regarding transfer student eligibility.

22.2.2 College of Environmental Science and Forestry Students enrolled full time at SUNY ESF are not eligible to practice or compete for any varsity intercollegiate team.

22.3 APPEAL PROCESS

22.3.1 No appeal will be granted to an athlete found to be in violation of any NCAA regulation.

22.3.2 A student-athlete must be enrolled in one of the schools or colleges of the University at all times. If a student-athlete is suspended from the home college for academic reasons, he or she must use the home college's appeal process. The final decision of the home college will determine athletic eligibility.

Academic Offerings

OFFERING	MINIMUM CREDITS REQUIRED	HEGIS
Accounting		0502
B.S.	121	

Accounting (Minor)			
Acting			1007
B.F.A.	124		
Addiction Studies (Minor)			
Advertising			0604
B.S.	122		
Advertising Design			1009
B.F.A.	126		
Aerospace Engineering			0902
B.S.	128		
African American Studies			2211
B.A.	120		
African American Studies (Minor)			
African American Studies (Tch Prep-5 yr.)			2211
B.A.	150		
Animation (Minor)			
Anthropology			2202
B.A.	120		
Anthropology (Minor)			
Anthropology (Tch Prep-5 yr.)			2202
B.A.	150		
Applied Statistics (Minor)			
Architecture			0202
B.Arch.	162		
Architecture (Minor)			
Art and Music Histories (Minor)			
Art Education			0831
B.F.A.	127		
Art History			1003
B.A.	120		
Art History (Minor)			
Art Photography			1011
B.F.A.	129		
Art Video			1010
B.F.A.	129		
Arts and Sciences/Art			1002
B.A.	120		
Arts and Sciences/Music			1005
B.A.	120		
Asian/Asian American Studies (Minor)			
Biochemistry			0414
B.S.	120		
Bioengineering			0905
B.S.	131		
Biology			0401
B.A.	120		
B.S.	120		
Biology (Minor)			
Biology (Tch Prep-5yr.)			0401
B.A.	150		
B.S.	150		
Biophysical Science			0499
B.A.	120		

Bioprocess Science - ESF (Minor)			
Biotechnology			0499
B.S.	120		
Broadcast and Digital Journalism			0603
B.S.	122		
Ceramics			1009
B.F.A.	129		
Chemical Engineering			0906
B.S.	128		
Chemistry			1905
B.A.	120		
B.S.	120		
Chemistry			1905
B.S.	121		
Chemistry (Minor)			
Chemistry (Tch Prep-5 yr)			1905
B.A.	150		
B.S.	150		
Child and Family Policy (Minor)			
Child and Family Studies			1305
B.S.	124		
Child and Family Studies (Minor)			
Chinese Studies (Minor)			
Civil Engineering			0908
B.S.	127		
Classical Civilization			0399
B.A.	120		
Classics			1504
B.A.	120		
Classics (Minor)			
Cognitive Science (Minor)			
Comm & Rhetorical Studies (Minor)			
Communication and Rhetorical Studies			1506
B.S.	120		
Communication Sci & Disorders (Minor)			
Communication Sciences and Disorders			1220
B.S.	120		
Communications Design			1009
B.F.A.	129		
Communications Photography (Minor)			
Computer Art			1009
B.F.A.	129		
Computer Engineering			0999
B.S.	129		
Computer Engineering (Minor)			
Computer Gaming (Minor)			
Computer Science			0701
B.S.	123		
B.S., M.S.	150		
Computer Science (Minor)			
Construction Management- ESF (Minor)			
Disability Studies (Minor)			

Drama			1007
B.S.	120		
Early Childhood (Minor)			
Earth Sciences			1917
B.A.	120		
B.S.	120		
Earth Sciences (Minor)			
Earth Sciences (Tch Prep-5 yr.)			1917
B.A.	150		
B.S.	150		
Economics			2204
B.A.	120		
B.S.	120		
Economics (Minor)			
Economics (Tch Prep-5 yr.)			2204
B.A.	150		
B.S.	150		
Education Studies (Minor)			
Electrical Engineering			0909
B.S.	132		
Electrical Engineering (Minor)			
Energy Systems (Minor)			
Engineering & Computer Sci Mgt (Minor)			
English and Textual Studies			1502
B.A.	120		
English and Textual Studies (Minor)			
English and Textual Studies (Tch Prep-5 yr)			1502
B.A.	150		
English Education 7-12			1501.01
B.A.	123		
Entrepren & Emerg Enterprise (Minor)			
Entrepreneurship and Emerging Enterprises			0506
B.S.	121		
Environmental Biology			0420
B.S.	126		
Environmental Engineering			0922
B.S.	128		
Ethics (Integrated Learning Major)			
European Literature			1101
B.A.	120		
Exercise Science (Minor)			
Fashion Design			1009
B.F.A.	126		
Fashion Design (Minor)			
Fiber and Textile Arts			1009
B.F.A.	120		
Film			1010
B.F.A.	129		
Finance			0504
B.S.	121		
Finance (Minor)			
Fine Arts			1001
B.A.	120		

Forensic Science (Minor)		
Forensic Science (Integrated Learning Major)		
French and Francophone Studies		1102
B.A.	120	
French and Francophone Studies (Minor)		
General Studies in Management		0506
B.S.	121	
Geography		2206
B.A.	120	
Geography (Minor)		
Geography (Tch Prep-5 yr.)		2206
B.A.	150	
German (Minor)		
German Language, Literature, and Culture		1103
B.A.	120	
Global Enterprise Technology (Minor)		
Global Political Economy (Minor)		
Graphic Design		1009
B.S.	122	
Health and Exercise Science		1299.3
B.S.	125	
Health and Wellness (Minor)		
History		2205
B.A.	120	
History (Minor)		
History (Tch Prep-5 yr.)		2205
B.A.	150	
History of Architecture		1003
B.A.	120	
History of Architecture (Minor)		
History of Art		1003
B.F.A.	126	
Hospitality & Food Service Mgt (Minor)		
Hospitality and Food Service Management		1307
B.S.	124	
Illustration		1009
B.F.A.	126	
Inclusive Early Childhood Special Education Teacher Preparation		0808
B.S.	134	
Inclusive Elementary and Special Education Teacher Preparation		0808
B.S.	132	
Industrial and Interaction Design		1009
B.I.D.	156	
Information Management and Technology		0702
B.S.	120	
Information Mgmt & Technology (Minor)		
Interdisc Minor In Gerontology (Minor)		
Interior Design		0203
B.F.A.	126	
International Business (Minor)		
International Relations		2210
B.A.	120	

International Relations (Tch Prep-5 yr.)		2210
B.A.	150	
Italian (Minor)		
Italian Language, Literature, and Culture		1104
B.A.	120	
Jewelry and Metalsmithing		1009
B.F.A.	126	
Judaic Studies (Minor)		
Landscape Architecture-ESF (Minor)		
Latin American Studies (Minor)		
Latino-Latin American Studies		0308
B.A.	120	
Latino-Latin American Studies (Tch Prep-5 yr.)		0308
B.A.	150	
LesbianGayBsxITransgndr Studies (Minor)		
Liberal Arts		5649
A.A.	60	
Liberal Studies		4901
B.A.	120	
Linguistic Studies		1505
B.A.	120	
Linguistic Studies (Minor)		
Logic (Minor)		
Magazine		0602
B.S.	122	
Management		0506
B.A.	121	
Management Studies (Minor)		
Marketing (Minor)		
Marketing Management		0509
B.S.	121	
Mathematics		1701
B.A.	120	
B.S.	120	
Mathematics (Minor)		
Mathematics (Tch Prep-5 yr.)		1701
B.A.	150	
B.S.	150	
Mathematics Education 7-12		1701.01
B.S.	123	
Mechanical Engineering		0910
B.S.	128	
Medieval & Renaissance Studies (Minor)		
Middle Eastern Studies		0309
B.A.	120	
Middle Eastern Studies (Minor)		
Modern Foreign Language		1101
B.A.	120	
Music		1005
B.A.	126	
Music Composition		1004.10
B.Mus.	128	
Music Education		0832

B.Mus.	132	
Music History and Cultures		1006
B.A.	120	
Music History and Cultures (Minor)		
Music Industry		1004
B.Mus.	133	
Music Industry (Minor)		
Music Performance (Minor)		
Musical Theater		1007
B.F.A.	128	
Nat Resources & Envir Plcy-ESF (Minor)		
Native American Studies (Minor)		
Neuroscience (Integrated Learning Major)		
Newspaper and Online Journalism		0602
B.S.	122	
Nutrition		1306
B.S.	124	
Nutrition (Minor)		
Nutrition Science		1306
B.S.	124	
Nutrition Science (Minor)		
Organ		1004
B.Mus.	126	
Painting		1002
B.F.A.	126	
Paper Science - ESF (Minor)		
Percussion		1004
B.Mus.	126	
Philosophy		1509
B.A.	120	
Philosophy (Minor)		
Photography		1011
B.S.	122	
Physical Education		0835
B.S.	120	
Physical Education (Coaching) (Minor)		
Physics		1902
B.A.	120	
B.S.	120	
Physics (Minor)		
Physics (Tch Prep-5 yr.)		1902
B.A.	150	
B.S.	150	
Piano		1004
B.Mus.	126	
Policy Studies		2102
B.A.	120	
Policy Studies (Minor)		
Policy Studies (Tch Prep-5 yr.)		2102
B.A.	150	
Political Philosophy		1509
B.A.	120	

Political Science		2207
B.A.	120	
Political Science (Minor)		
Political Science (Tch Prep-5 yr.)		2207
B.A.	150	
Printmaking		1009
B.F.A.	126	
Psychology		2001
B.A.	120	
B.S.	120	
Psychology (Minor)		
Public Communications Studies (Minor)		
Public Health		1299
B.S.	123	
Public Health (Minor)		
Public Relations		0604
B.S.	122	
Real Estate		0511
B.S.	121	
Real Estate (Minor)		
Recording and Allied Entertainment Industries		1099
B.S.	125	
Recreation Resource and Protected Area Management - ESF (Minor)		
Religion		1510
B.A.	120	
Religion (Minor)		
Religion and Society		1599.10
B.A.	120	
Religion and Society (Minor)		
Religion and the Media (Minor)		
Renewable Energy - ESF (Minor)		
Retail Management		0506
B.S.	121	
Retail Management (Minor)		
Rhetoric and Public Advocacy (Minor)		
Russian (Minor)		
Russian and Central Europe Std (Minor)		
Russian and Central European Studies		0307
B.A.	120	
Russian Language, Literature, and Culture		1106
B.A.	120	
Science Education (Biology) 7-12		0401.01
B.A.	123	
B.S.	123	
Science Education (Chemistry) 7-12		1905.01
B.A.	123	
B.S.	123	
Science Education (Earth Science) 7-12		1917.01
B.A.	123	
B.S.	123	
Science Education (Physics) 7-12		1902.01
B.A.	123	
B.S.	123	

Sculpture		1002
B.F.A.	126	
Selected Studies		4901
B.S.	120	
Selected Studies in Arts and Sciences		4901
B.A.	120	
Selected Studies in Education		0899
B.S.	120	
Social Studies Education 7-12		2201.01
B.A.	126	
Social Welfare (Minor)		
Social Work		2104
B.S.	120	
Sociology		2208
B.A.	120	
Sociology (Minor)		
Sociology (Tch Prep-5 yr.)		2208
B.A.	150	
South Asian Studies (Minor)		
Spanish (Minor)		
Spanish Language, Literature, and Culture		1105
B.A.	120	
Special Studies in Art		1001
B.F.A.	126	
Sport Management		0599
B.S.	124	
Sport Management (Minor)		
Stage Management		1007
B.F.A.	124	
Strategic Management (Minor)		
Strings		1004
B.Mus.	126	
Supply Chain Management		0510
B.S.	121	
Surface Pattern Design		1009
B.F.A.	126	
Sustainable Construction Management - ESF (Minor)		
Systems and Information Science		0702
B.S.	120	
Television, Radio and Film		0603
B.S.	122	
Theater (Minor)		
Theater Design and Technology		1007
B.F.A.	130	
Visual Culture (Minor)		
Voice		1004
B.Mus.	126	
Wind Instruments		1004
B.Mus.	126	
Women's and Gender Studies		4903
B.A.	120	
Women's and Gender Studies (Minor)		

Women's and Gender Studies (Tch Prep-5 yr.)		4903
B.A.	150	
Writing (Minor)		
Writing and Rhetoric		1507
B.A.	120	

Minors At Syracuse University

For a full list of minors click here <http://coursecatalog.syr.edu/2010/programs>

A minor provides an excellent opportunity to blend another subject area into your degree program without the additional requirements of a double major or dual degree. A minor may be related to your major, or it might be in a completely different academic/professional area. Because a completed minor appears on your transcript, it highlights another dimension of educational background to support an application for graduate study or employment.

A minor is a grouping of 6 or more courses, totaling 18 to 21 credits, of which 12 credits are usually in 300- to 400-level courses. A minor may be similar to and named for an existing major, such as Chemistry, or it may be an interdisciplinary grouping, like Judaic Studies. The department or college offering the minor determines which courses are required. Some colleges require a formal minor as part of the degree program.

Minor courses may or may not fit into the electives of your degree requirements. Your academic advisor or home college undergraduate office can advise you on the effect of a minor on your particular degree program, including whether or not you will need to complete more than the normal total number of credits.

Enrolling in a Minor

Pursuing a minor should be discussed with your academic advisor as early in your academic career as possible. You will then complete a Declaration of Minor form, available in your school/college undergraduate office. The form must be signed by the department or college offering the minor and, in some cases, your advisor. Your home college's undergraduate office will review the paperwork and enter the minor on your student record. A variety of minors offered by SUNY College of Environmental Science and Forestry are also available to Syracuse University students. Information about these minors is available at: [/2010/schools/ESF/861_undergraduate_programs](http://2010/schools/ESF/861_undergraduate_programs). Students may request admission into SUNY ESF minors using the same forms and procedures used for Syracuse University minors.

Information about minors that have enrollment limits or eligibility requirements can be obtained at the sponsoring department/college. The sponsoring unit can explain specific course requirements and options for the minor. In some cases, a minor must be officially listed on your record for you to be able to register for certain restricted courses. The sponsoring department/college can advise you on the best timing for submitting your paperwork.

After certification by your college for graduation, and if all coursework for the minor is completed, it will appear on your transcript under the college, major, and degree listing as "MINOR IN {title}."

Pursuing More Than One Minor

You may pursue more than one minor if there are enough elective course opportunities in your degree program or if you choose to graduate with additional credits. This possibility should be discussed with your academic advisor or school/college undergraduate office.

Official Minors

All current official disciplinary minors are listed on the appropriate school, department, or program pages. Detailed descriptions of requirements for each minor may be found at the following link <http://coursecatalog.syr.edu/2010/programs> or by contacting specific departments for minors not described in this catalog. Interdisciplinary minors within the College of Arts and Sciences and between the College of Arts and Sciences and other schools and colleges can be found here. Please be aware that not all minors are endorsed by all schools and colleges. You should verify that the minor you wish to pursue is accepted by your home college.

Other Programs

English Language Institute

Geraldine de Berly, Director
700 University Avenue, 315-443-2390
FAX: 315-443-1530
elimail@uc.syr.edu
<http://www.suce.syr.edu/eli/>

Syracuse University sponsors the English Language Institute (ELI) to provide English language instruction to international students and visiting professionals. It is administered through University College and offers instruction, from beginner to advanced levels.

The ELI provides intensive study of the language for those who must improve their English for academic or professional reasons. Its goal is to prepare participants to use English as quickly and effectively as possible. Instruction is offered in English grammar, reading, writing, listening, speaking, and pronunciation. Films, lectures, area trips, and special events are part of the program and are designed to help students learn English on an accelerated basis.

Students may take a series of 15-week courses with 20 hrs a week of instruction. During the summer, two 6-week sessions with 25 hours a week of instruction are offered. Short and long-term courses can also be designed for individuals or groups with specific needs and disciplines. Completion of the Level 4 (high intermediate) course will waive the University TOEFL requirement for undergraduates.

For further information, contact the English Language Institute, 700 University Avenue, Syracuse NY 13244-2530, U.S.A.

I LEARN

Kandice L. Salomone, Director
329 Hall of Languages, 315-443-9396
ilearn.syr.edu

The Center for Innovative Learning (iLEARN) of the College of Arts and Sciences supports a variety of innovative educational programs and undergraduate research activities in the College and its departments. It also serves as a clearinghouse for information about undergraduate research and other innovative learning opportunities, as well as a source of encouragement and support for their further development.

The center helps students complement traditional classroom and laboratory work with enhanced out-of-classroom learning experiences. These experiences represent active learning at its best, tapping students' creativity, curiosity, and drive. These kinds of opportunities also enable students to apply their knowledge and skill to independent research and other scholarly projects that address real world problems, and give them the kinds of experiences helpful in making career choices.

Exemplary programs

- Undergraduate Research Program
- The Syracuse University Undergraduate Mock Trial Program
- Ruth Meyer Undergraduate Research Scholars Program
- The Syracuse University Debate Society

Funding opportunities

iLEARN has funds available for use by arts and sciences undergraduate students, faculty, and departments/programs for eligible projects. Eligibility is dependent on a project's relevance to the types of educational activities listed in the mission statement. Inquiries should be made to the director of iLEARN.

Courses/Credits

Each credit-earning program listed under iLEARN has its own courses or credit-bearing numbers available for use by eligible students.

Mary Ann Shaw Center For Public & Community Services

Pamela Kirwin Heintz, Director
237 Schine Student Center, 315-443-3051
CPCS@syr.edu
students.syr.edu/cpcs

The Mary Ann Shaw Center for Public and Community Service (CPCS) provides support for faculty to integrate community based service learning/research into academic coursework for undergraduate and graduate students. It does this by: furnishing organizational information about placements for those seeking community based service learning/research opportunities; helping create new partnerships/collaborations and learning/research opportunities; and supporting ongoing academic programs/projects/courses that foster community based service learning/research on the local, national, and global levels. Since opening in 1994, CPCS has provided assistance to faculty in the form of training and orientation, identification and mitigation of risk/liability issues, ongoing support, monitoring, and evaluation. Additionally, CPCS offers a variety of curricular and co-curricular service opportunities. Every college within the University offers community based service learning/research opportunities for students.

The Program

Community based service learning components of courses provide opportunities for students to put the value of learning into action through community service placements. The students can connect theory and practice as they train for life, enrich their moral character, and develop their sense of civic responsibility. This educational opportunity deepens the students' sense of connectedness and responsibility to others and includes elements of vocation and avocation.

Students participate in the community based service components of their courses by completing a predetermined number of service hours at a community site. Under the direction of the course professor, teaching assistants, academic managers, and CPCS, students keep journals, write papers, do action based research, and present projects and reports to reflect on and process the community service experience. The course professor assumes grading responsibility. Academic credit for the service learning experience is awarded by the professor through credit for the course.

CPCS works with students, faculty, teaching assistants, academic administrators, and community site partners and supervisors to assist in successfully implementing community based learning opportunities. CPCS provides information about placement options; orientation to the community; assistance when there are questions; transportation (on a first-come, first-served basis to the extent resources allow); and evaluation of the community service component of the course for future improvement.

Courses

Students are invited to visit the CPCS office or web site at students.syr.edu/cpcs to check the list of the courses known at this time to include a community based service learning component. Students are encouraged to discuss courses that interest them with the appropriate faculty advisor before registering. Students can, with the approval of the professor, request individual placements within courses to enhance assignments or course goals. CPCS will work to help the student develop and implement an appropriate placement, as well as assist with the reflection and processing of the experience, if appropriate.

Renee Crown University Honors Program

Professor James Spencer, Interim Director
306 Bowne Hall, 315-443-2759

The Renée Crown University Honors Program is a selective, demanding, and rewarding program for outstanding students who seek intense intellectual challenge and are prepared to invest the extra effort it takes to meet that challenge. It is marked by four distinguishing characteristics:

- heightened expectations;
- participation in a vibrant and active community of learners;
- intensity of intellectual experience; and
- special intellectual opportunities and responsibilities.

The program is open to qualified students from all undergraduate majors at Syracuse University. Its requirements, supplemental to those of their majors, stipulate that they demonstrate the attributes of depth, breadth, command of language, global awareness, civic engagement, and collaborative capacity by successfully completing the following program requirements:

DEPTH

1. An Honors Capstone Project, with written summary for a non-expert audience; and
2. XXX 499, Capstone Project preparation, in the major (e.g., HST 499 or ETS 499).

BREADTH (the following three requirements):

A. An introductory honors seminar (HNR 100, for first-year students; HNR 210, HNR 220, or HNR 230 for students entering after their first year).

B. Disciplinary Diversity

Four three-credit Honors courses, from at least two of the following divisions: humanities, social sciences, or natural sciences/mathematics. At least two of these courses must carry the HNR prefix. The remaining two courses may have the HNR prefix, or be Honors sections of regular, departmental courses. Students may substitute three one-credit, 200-level Honors seminars, taken for a grade, for one of these courses.

C. Interdisciplinary Work (one of the following three options):

1. An approved, three-credit HNR or other course with substantial interdisciplinary content; or
2. An independent project experience, with prior approval from the Honors Program; or
3. A clearly interdisciplinary Capstone Project, with prior approval from the Honors Program and from the student's major department.

COMMAND OF LANGUAGE (the following four requirements):

1. The Capstone Project as described under "Depth" above;
2. A written summary of the Capstone Project, as noted under "Depth" above;
3. One course with a substantial public presentation requirement; and
4. *Either* one course with a significant quantitative component *or* one course in creative expression.

GLOBAL AWARENESS (two of the following ten options; at least one must be non-Eurocentric in its focus):

1. One course that has a non-US focus (other than language courses);
2. A Capstone Project that has a non-US focus;
3. Ability in a foreign language at a level of 201 or higher;
4. An internship or other work with a documented global perspective for at least 50 hours;
5. A semester or summer abroad in a University-approved foreign study program;
6. An Honors-approved, short-term program that includes a foreign travel component (see examples at: suabroad.syr.edu/programs/shortTerm);
7. At least one semester of residence in a Learning Community with an international focus.
8. Participation in the University's Maxwell in Washington Undergraduate Semester residency program (IR/DC);
9. An approved, sustained, reciprocal mentoring partnership with international students for one semester under the aegis of the Slutzker Center for International Services; or
10. An alternative path approved in advance by the Honors Program.

If the requirements of a student's major create a serious impediment to completing this requirement as stated, the student may, with prior approval from the program director, satisfy the requirement by completing two global courses, at least one of which must be non-Eurocentric.

CIVIC ENGAGEMENT

Demonstrate civic engagement through sustained, documented involvement over several semesters. The minimum requirement is 50 hours of activity.

COLLABORATIVE CAPACITY (one of three options):

Successfully complete an extended activity with a team of three to five collaborators that involves significant intellectual content appropriate to the Honors Program:

1. An approved course that involves substantial teamwork; or
2. An independent project experience (in an area such as drama or engineering), resulting in production of a deliverable artifact, such as a report, presentation, or performance (requires faculty approval before work begins and at the end of the project);
3. An off-campus project (which may be done through an internship, field experience, or other activity), resulting in a deliverable artifact, such as a report, presentation, or performance, and accompanied by a written description of the experience, signed by the faculty mentor.

All courses taken to fulfill the above requirements must be completed with a grade of B or better. Honors students must complete the program with a grade point average at least at the *cum laude* level in their home schools or colleges (for School of Architecture students, 3.2; for all other schools and colleges, 3.4).

Upon completion of these requirements, "Renée Crown University Honors" is awarded on the diploma and listed under "Awards and Honors" on the transcript.

Courses

For a listing of current and past Honors courses offered each semester, go to <http://honors.syr.edu/courses/index.htm>.

Reserve Officer Training Corps (ROTC)

The Reserve Officer Training Corps program is offered by the Air Force through the Department of Aerospace Studies and by the Army through the Department of Military Sciences. Both programs include a basic course taken during the first and sophomore years, and an advanced course taken during the junior and senior years. Each program offers commissions in their respective service for men and women who complete the course requirements and meet other mandatory prerequisites.

Students may enroll in the first two years of either program and complete field training or basic camp without incurring any military-service obligation. Uniforms and ROTC textbooks are furnished throughout the programs. Students accepted to the second two years of the programs are given a subsistence allowance of \$450 to \$500 a month during each academic year. Two-, three-, and four-year scholarship recipients receive tuition assistance, a book allowance, lab fees, and a stipend ranging from \$300 a month for first-year students to \$500 a month for seniors for the duration of their scholarship.

Sophomores may receive credit for the basic course by attending a special, expenses-paid, five-week camp during the summer before the junior year.

Enrollment in the ROTC program is also available to seniors who expect to go directly into graduate school in a program that requires at least two academic

years to complete, as well as to graduate students who will have four or more semesters remaining at the time of the next fall registration.

Academic credit awarded toward graduation requirements for military science and aerospace studies courses is determined by the individual schools and colleges.

Interested students should inquire at the ROTC office of their choice either before or at the start of the academic year or semester. Students may visit the ROTC offices in Archbold North. For more information on the individual program descriptions, refer to the course catalog or call the Unit Admissions Officer, Army ROTC, 315-443-1752; or Air Force ROTC, 315-443-2461; or visit us .

Air Force Reserve Officer Training Corps
Lt. Col. Ray Bowen
Professor of Aerospace Studies
303 Archbold, 315-443-2461

The goal of the Air Force Reserve Officer Training Corps is to commission second lieutenants in the U.S. Air Force. Students completing the Air Force ROTC training program will serve as Air Force officers on active duty for a minimum of four years after graduation. These students will have learned to exercise leadership, think critically and creatively, and communicate effectively. All cadets are required to complete the Air Force ROTC course sequence. The ROTC academic courses are cross-listed with other University departments and colleges, allowing academic credit toward degree requirements.

Students in the Air Force ROTC program enroll in an aerospace studies (ASC) course each semester. ASC 205/PAF 275 and ASC 206/PAF 276 are taken during the first year and ASC/HST 295 and ASC/HST 296 are taken during the sophomore year. These courses comprise the general military course and meet one hour a week.

During the junior year, students enroll in ASC 305/O&M 405 and ASC 306/O&M 406. During the senior year, they enroll in ASC 405/PAF 475 and ASC 406/PAF 476. These courses comprise the professional officer course, and each meets for three hours a week.

All academic courses are taught by career Air Force officers who hold at least a bachelor's degree. These officers are on the University faculty and hold the academic title of professor or assistant professor for the duration of their assignment.

Besides attending academic classes, cadets attend a leadership laboratory each week. The leadership laboratory provides instruction in Air Force customs and courtesies, drill and ceremonies, expeditionary skills, and briefings on career opportunities. The instruction is conducted by the cadet corps with a progression of experiences designed to develop leadership potential.

During the summer between the sophomore and junior years, cadets attend field training at Maxwell Air Force Base in Alabama. This training is four weeks long for the cadets in the four-year program and five weeks long for cadets in the two-year program. Field training provides each cadet with leadership training, group involvement, physical fitness training, and a chance to experience life in an active Air Force environment.

Juniors in Air Force ROTC are eligible to apply for positions as cadet training assistants or to participate in professional development training programs around the country. Cadet training assistants attend a field training camp and train and evaluate cadet trainees and execute field training activities.

Army Reserve Officer Training Corps
Lt. Col. Philip G. Smith
Professor of Military Science
308 Archbold North, 315-443-2462

Students in the Army ROTC program receive instruction in general military science in preparation for commissions as second lieutenants in the U.S. Army, Army Reserve, or National Guard. Officer education emphasizes such areas as the duties and responsibilities of junior officers; the understanding of the fundamental concepts and principles of military art and science; the development of leadership and management potential; a basic understanding of associated professional knowledge; a strong sense of personal integrity, honor, and individual responsibility; and an appreciation of the requirements for national security.

All students participate in a two-hour leadership laboratory each week. This period of instruction is largely student-planned and directed and provides opportunities for realistic leadership experience. It emphasizes leadership, basic military skills, and professional knowledge subjects.

In addition to the leadership laboratory, basic-course students (first-year and sophomore students) receive instruction in physical conditioning, first aid, effective writing, and human behavior. The basic course does not obligate students to any military service and only requires two to three hours a week.

After successful completion of basic-course requirements, students can enroll in advanced ROTC, which requires five to eight hours a week.

In the junior year cadets prepare for advanced camp, which takes place at an active duty Army base, during the summer between the junior and senior year.

Students study military leadership and management, map reading, advanced physical conditioning, military ethics, professionalism, and law. These courses, if cross-listed with other academic courses, may be taken for academic credit.

Field training exercises are held once each semester. They introduce a wide range of military skills and stress practical application of classroom instruction. Skills in rappelling, land navigation, tactics, and marksmanship are taught at a variety of field sites in Central New York and Pennsylvania.

Aerospace Studies Courses

GENERAL MILITARY
ASC 101,102/201,202
ASC 205/PAF 275
ASC 206/PAF 276
ASC/HST 295
ASC/HST 296

PROFESSIONAL OFFICER
ASC 301,302/401,402
ASC 305/O&M 405
ASC 306/O&M 406
ASC 405/PAF 475
ASC 406/PAF 476

MILITARY SCIENCE COURSES
MSL 101,102/201,202
MSL 301,302/401,402

Student Success Initiative (SSUI)

The Student Success Initiative (SSUI) program is committed to the retention of students. In partnership with SU's schools and colleges, SSUI provides a comprehensive learning community experience that includes personal coaching, quiet study areas, University-wide study clinics, tutorials, and social activities. To qualify for the SSUI program, students must show some indication they are academically "at risk" and are dedicated to making a change in their approach to academic and personal development. For additional information, contact JoAnn May, Director, SSUI, 700 University Avenue, Suite 407, 315-443-1095, or visit our web site .

SU Abroad

*Jon Booth, Executive Director
106 Walnut Place, 315-443-3471
suabroad.syr.edu*

Syracuse University Abroad (SU Abroad) offers students the opportunity to study abroad for a semester, academic year, or a summer or short-term session without interrupting a normal degree program. All programs offer fully accredited Syracuse University courses. Most programs are open to qualified students regardless of the major field of study, and past participants have come from all the colleges and schools of the University, as well as from other college and university campuses across the United States.

Programs are available during the academic year at centers operated by Syracuse University in Chile, China, England, France, Hong Kong, Italy, and Spain. Through SU's World Partners program, additional opportunities are available in Australia, Austria, Barbados, Botswana, Cameroon, Chile, China, Costa Rica, the Czech Republic, the Dominican Republic, Ecuador, Egypt, England, France, Germany, Ghana, Hong Kong, India, Ireland, Israel, Italy, Jamaica, Japan, Kenya, Korea, Morocco, Namibia, Poland, Russia, Senegal, South Africa, Spain, Trinidad and Tobago, Turkey, and Uganda.

Summer sessions abroad vary from year to year at SU centers and other sites in Europe, Asia, Latin America, and Africa. Many summer programs feature internships and professional development opportunities, including management in London, Madrid, and South Africa, or filmmaking in India.

The goals of SU Abroad are to draw upon unique cultural and intellectual resources in host countries in order to extend subject-matter competency, develop language proficiency and cultural sensitivity to enhance and broaden the perspective of one's own culture. The structured academic program, living accommodations, and cultural engagement through community service and volunteer program contribute to achieving these goals.

Programs at SU centers are supervised by permanent academic directors and on-site staff. Courses are taught by SU professors and professors from institutions in the host country. Language instruction is integral to the program. There is no language prerequisite at SU centers, with the exception of the Chile center which requires at least one year of college-level Spanish and an intensive pre-semester, four-week language course.

Students pay SU tuition and a program fee, which typically covers all-school field study, orientation, housing, and some meals for the term.. Financial aid and institutional scholarships travel with students enrolled in SU Abroad programs. Other financial aid opportunities available include study-abroad and work-study grants, named scholarships, merit scholarships, location grants, and other aid assistance.

Study abroad programs are available in cooperation with all schools and colleges of the University. Although most semester- and year-long programs are designed for undergraduate students, several graduate courses and programs are offered abroad.

For information about the courses offered in each country, visit suabroad.syr.edu.

Undergraduate Research

*Kandice L. Salomone, Director
329 Hall of Languages, 315-443-9396
ilearn.syr.edu*

The Undergraduate Research Program (URP), housed in the College of Arts and Sciences but open to qualified participants from other colleges, exists to provide non-classroom, credit-bearing educational opportunities to undergraduate students. Interested qualified students work closely with faculty members in faculty-generated research projects, or other projects representing the faculty member's professional and academic interests. The program features the apprenticeship model, and students gain firsthand experience in creative and investigative academic processes, participate in alternate learning environments, translate theory into practice, explore the cutting edges of particular disciplines, develop closer working relationships with faculty members, and enhance their own career and educational credentials.

FACULTY PARTICIPATION

The program offers faculty members a chance to extend and expand the character of their teaching in the undergraduate context, to work closely with self-selecting, highly motivated students, to attract excellent students to continued study in their particular field of study, and to open both internal and external funding possibilities by way of undergraduate involvement in their work. Faculty projects open to this involvement are invited and listed on a semester-by-semester basis, although individual projects may extend beyond a semester in length or be repeated or relisted as appropriate. The character and requirements of these projects, as well as the number of credits involved, vary greatly, since they come from across the disciplines of the College of Arts and Sciences, and sometimes from other colleges as well. The common criterion for all, however, is appropriateness to an educational credit-bearing experience for qualified undergraduate students.

For more information about the Undergraduate Research Program please visit our website

University Gerontology Center

Janet Wilmoth, Director

Martha W. Bonney, Assistant to the Director
426 Eggers Hall, 315-443-2703
gerontology.syr.edu

The Gerontology Center at Syracuse University administers a certificate in gerontology for both graduate and undergraduate students, and undertakes or supports a broad range of research and scholarly activity. The center calls upon faculty from a variety of departments, disciplines, and professions across the University, including public administration, human services, economics, social work, law, psychology, sociology, exercise science, and education. It is committed to an interdisciplinary team approach in its research projects. Graduate students, staff, and faculty work closely together in a cooperative framework of learning and the advancement of knowledge.

Established in 1972, it is one of the oldest institutions of its kind in the United States. It has been a leader in public policy analysis and professional education to benefit the elderly. The center does not offer its own curriculum. Instead, coursework in the field of aging is offered through each participating school or college. Students matriculate for a degree in a school or college within the University and undertake a specialization in gerontology.

ACADEMIC PROGRAM

The University Gerontology Center offers the opportunity for all undergraduate and graduate students to relate their major to the study of aging. A certificate of achievement in gerontology is awarded to graduating students who have successfully completed 15 credits of aging-related coursework.

ADMISSION

Students interested in the Gerontology Certificate program must complete an application, which can be obtained from the Gerontology Center office. Students are encouraged to apply early in their academic career.

Guide To Reading Course Descriptions

Course Numbering System

The present system of numbering courses prescribes that all courses use three digits to indicate the course level and/or type of course, and a three-letter subject designator to indicate the department or college.

The following catalog numbering guidelines indicate the level and type of course:

Remedial and noncredit courses	000-099
Freshman-level courses	100-199
Sophomore-level courses	200-299
Junior- and senior-level courses	300-499
Joint undergraduate- and graduate-level courses	500-599
First-year graduate-level courses	600-699
Second- and third-year graduate-level courses	700-899
Readings, research, and individual study courses at the doctoral level only	900-996
Master's thesis	997
Individualized study program	998
Doctoral dissertation	999

INTERPRETATION

The first, or left, digit of the course catalog number indicates level.

The second, or middle, digit may or may not indicate the study area, depending upon the curriculum structure of the particular department.

Glossary of Course Designators

Each course number is preceded by a three-letter designator that indicates the subject or area of study. You can view a complete alphabetical list of such designations, together with the area for which each stands and the college or school in which the course is taught, by selecting the above link.

Guide To Reading Descriptions

EXAMPLE 1

ANT447 Archaeology of North America College of Arts and Sciences

Crosslisted with: NAT 447

Double Numbered with: ANT 647

3 Credits - Offered irregularly

Introduction to the regional prehistory of North America north of Mexico, from the late Pleistocene until European contact. Adaptation of prehistoric human populations to their ecosystems. Additional work required of graduate students.

PREREQ: ANT 141, ANT 145

ANT447 — course subject designator = ANT (Anthropology) (see “Glossary of Course Designators”) and catalog number = 447.

Archaeology of North America — course title.

College of Arts and Sciences — the school, college or academic unit offering the course.

Crosslisted* with: NAT447— course is crosslisted with a course in Native American Studies, NAT 447.

*Crosslist: Two or more different subject designators, same or different course numbers, but with the same title and catalog description, e.g., ANT/NAT 447. Crosslisting may occur within a school or college or between or among schools/colleges.

Double-Numbered with: ANT647** — Course is also offered as ANT 647.

**Double Number: Same subject designator, two different course numbers at the same or different levels, usually undergraduate and graduate, e.g., ANT 447/647.

3 Credits — number of academic credits the course carries. Variable credit courses show a range of credits, e.g. 1-3 credits.

Offered irregularly — Indicates frequency of offering. Courses may be offered every semester, at least once a year, only in academic years ending in an odd year (2010-2011) or in an even year (2011-2012); during a summer session, irregularly, or based on sufficient student interest.

Introduction to the regional prehistory of North America north of Mexico, from the late Pleistocene until European contact. Adaptation of prehistoric human populations to their ecosystems. Additional work required of graduate students.— Course description

PREREQ: ANT 141, ANT 145 — A prerequisite (PREREQ) is a course or condition that must be successfully completed or met before enrollment is possible in the course described. Prerequisites separated by a comma (“ANT 141, ANT 145”) indicate a series of prerequisites, all of which are required. Variations include “ANT 141, ANT 145 or ANT 121” which indicates that the student must complete either ANT 141 and ANT 145 or ANT 141 and ANT 121. If the course had a corequisite, i.e., the course or courses in which concurrent enrollment is required, it would display the corequisites as “**COREQ**”.

Example 2– Courses that can be repeated for credit

SED 340 Participation in the Professional Development School School of Education

Crosslisted with: EED 340

Double Numbered with: SED 640

0-1 Credits - Offered each semester

Individual involvement in research, discussion and decision making with teachers, university faculty, and colleagues who are members of the Professional Development School Cadres and Academies. Permission of instructor.

Repeatable 5 time(s), 2 credits maximum

In this example, the statement “repeatable 5 time(s), 2 credits maximum”, appears at the end of the description. This means the course may be taken and counted more than once toward fulfillment of degree requirements. In the example, SED 340 can be repeated up to 5 times, but only for a maximum of 2 credits earned.

Descriptions Of All-University Courses

All-University courses allow students considerable flexibility in developing individual academic programs. Students enrolled in any school or college within the University may enroll in these courses. Some, but not all, all-University courses are displayed under individual school and college course listings in this catalog. Whether listed or not, the descriptions are standard in every program and are provided below.

Experience credit and independent study courses may be elected for one to six credits, depending on individual arrangements with the participating faculty member. In selected topics courses, students may earn one to three credits. Students are advised to check carefully with their faculty advisors and the dean of their school or college before registering for an all-University course to be sure that the course will be accepted toward the completion of their degree requirements.

SELECTED TOPICS (TITLE MAY VARY)

(Subject) (Catalog Number) Selected Topics 1-3 credits

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester.

EXPERIENCE CREDIT

(Subject) (Catalog Number) Experience Credit 1-6 credits

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. The student must get permission, in advance, of assigned instructor, department chair, or dean.

INTERNATIONAL COURSE

(Subject) (Catalog Number) (Title and Name of Institution) 1-12 credits

Offered through Syracuse University Abroad (SU Abroad) by an educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution’s practice. SU Abroad works with SU’s academic department to assign the appropriate course level, title, and grade for the student’s transcript.

INDEPENDENT STUDY

(Subject) (Catalog Number) Independent Study 1-6 credits

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. May be repeated for credit.

HONORS THESIS

(Subject) 499 Honors Thesis 3-6 credits

The “499” number is used as needed by all departments in the University. Students sign up for Honors Thesis the same way they do for the other all-University courses - by filling out a form at registration each time they register for the course.

Course Numbering for All-University Courses

	Lower-division	Upper-division	1 st year graduate	Advanced graduate
Selected topics	100, 200	300, 400, 500	600	900
Experience credit	170, 270	370, 470, 570	670	970
International	180, 280	380, 480, 580	680	980
Independent study	190, 290	390, 490, 590	690	990
Honors thesis		499		



Course Designators

AAA Asian/Asian American Studies (The College of Arts and Sciences)
AAS African American Studies (The College of Arts and Sciences)
ACC Accounting (The Martin J. Whitman School of Management)
ACT Applied Computer Technologies (University College)
ADD Advertising Design (School of Art and Design)
ADF Art & Drama of Film (Drama)
ADV Advertising (S.I. Newhouse School of Public Communications)
AED Art Education (School of Education)
AEE Aerospace Engineering (L.C. Smith College of Engineering and Computer Science)
AJP Arts Journalism (S.I. Newhouse School of Public Communications)
ALP Arts Leadership Administration (The College of Arts and Sciences)
AMC Applied Music (Setnor School of Music)
AMH Amharic (The College of Arts and Sciences)
AMP Art Media Program (School of Art and Design)
AMS American Studies (The College of Arts and Sciences)
ANT Anthropology (The College of Arts and Sciences)
APH Art Photography (School of Art and Design)
ARA Arabic (The College of Arts and Sciences)
ARB Arabic (The College of Arts and Sciences)
ARC Architecture (School of Architecture)
ARD Urban Design (School of Architecture)
ART Art (School of Art and Design)
AST Astronomy (The College of Arts and Sciences)
ATE Adult Education (School of Education)
BCM Biochemistry (The College of Arts and Sciences)
BDJ Broadcast and Digital Journali (S.I. Newhouse School of Public Communications)
BEN Bioengineering (L.C. Smith College of Engineering and Computer Science)
BFA Basic Art (Freshmen) (School of Art and Design)
BGR Bulgarian (The College of Arts and Sciences)
BIB Bible Studies (The College of Arts and Sciences)
BIO Biology (The College of Arts and Sciences)
BNG Bengali (The College of Arts and Sciences)
BPS Bachelor of Professional Studies (University College)
BRI Brass Instruments (Setnor School of Music)
BRY Biochemistry (The College of Arts and Sciences)
BSN Bassoon (Setnor School of Music)
BTB Tuba (Setnor School of Music)
BUA Business Administration (The Martin J. Whitman School of Management)
BUE Business Economics (The Martin J. Whitman School of Management)
CAR Computer Art (School of Art and Design)
CAS College of Arts and Sciences (The College of Arts and Sciences)
CCR Composition and Cultural Rhetoric (The College of Arts and Sciences)
CEN Chemical Engineering (L.C. Smith College of Engineering and Computer Science)
CER Ceramics (School of Art and Design)
CFE Cultural Foundations of Education (School of Education)
CFS Child and Family Studies (Child and Family Studies)
CGR Computer Graphics (School of Art and Design)
CGS Cognitive Science (The College of Arts and Sciences)
CHE Chemistry (The College of Arts and Sciences)
CHI Chinese (The College of Arts and Sciences)
CHN World Language Prog: Chinese (The College of Arts and Sciences)
CHP College Honors Program (The College of Arts and Sciences)
CIE Civil Engineering (L.C. Smith College of Engineering and Computer Science)
CIS Computer and Information Science (L.C. Smith College of Engineering and Computer Science)
CLA Classics (The College of Arts and Sciences)
CLB Collaborative Laboratory (College of Visual and Performing Arts)
CLR Clarinet (Setnor School of Music)
CLS College Learning Strategies (School of Education)
CLT Comparative Literature (The College of Arts and Sciences)

CMD Communication Design (School of Art and Design)
 COG Cognitive Science (The College of Arts and Sciences)
 COM Communications (S.I. Newhouse School of Public Communications)
 CON Consumer Studies (College of Visual and Performing Arts)
 COU Counseling (School of Education)
 CPS Computational Science (L.C. Smith College of Engineering and Computer Science)
 CRS Communication and Rhetorical Studies (Communication and Rhetorical Studies)
 CSD Communication Sciences and Disorders (The College of Arts and Sciences)
 CSE Computer Engineering (L.C. Smith College of Engineering and Computer Science)
 CTG Conducting (Setnor School of Music)
 CZE Czechoslovakian (The College of Arts and Sciences)
 DAN World Language Program: Danish (The College of Arts and Sciences)
 DBS Double Bass (Setnor School of Music)
 DES Design (School of Art and Design)
 DFH Documentary Film and History (S.I. Newhouse School of Public Communications)
 DRA Drama (Drama)
 DRD Design/Technical Theater (Drama)
 DRS Drumset (Setnor School of Music)
 DRW Drawing (School of Art and Design)
 DSP Disability Studies (School of Education)
 DTC World Language Program: Dutch (The College of Arts and Sciences)
 DTS Dance Technique Studies (School of Education)
 DUT Dutch (The College of Arts and Sciences)
 EAR Earth Sciences (The College of Arts and Sciences)
 ECE Electrl & Computer Engr (L.C. Smith College of Engineering and Computer Science)
 ECN Economics (The College of Arts and Sciences)
 ECO Economics (The College of Arts and Sciences)
 ECS Engineering and Computer Science (L.C. Smith College of Engineering and Computer Science)
 EDA Education Leadership (School of Education)
 EDI Environmental Design (School of Art and Design)
 EDP Counselor Education (School of Education)
 EDU Education (General) (School of Education)
 EED Elementary Education (School of Education)
 EEE Entrepreneurship and Emerging Enterprises (The Martin J. Whitman School of Management)
 EGR Engineering (L.C. Smith College of Engineering and Computer Science)
 ELE Electrical Engineering (L.C. Smith College of Engineering and Computer Science)
 ELL English Language Learners (School of Education)
 EMB Executive Organization and Management M.B.A. Program (University College)
 ENA Environmental Arts (College of Visual and Performing Arts)
 ENC Ensemble (Chamber Music) (Setnor School of Music)
 ENG English (The College of Arts and Sciences)
 ENI Ensemble (Instrumental) (Setnor School of Music)
 ENL English as a Second Language (The College of Arts and Sciences)
 ENM Engineering Management (L.C. Smith College of Engineering and Computer Science)
 ENO Freshmen Orientation (The College of Arts and Sciences)
 ENP Engineering Physics (L.C. Smith College of Engineering and Computer Science)
 ENV Ensemble (Vocal) (Setnor School of Music)
 ESP Environmental/Science Policy (The College of Arts and Sciences)
 ETS English and Textual Studies (The College of Arts and Sciences)
 EUP Euphonium (Setnor School of Music)
 EXS Experimental Studios (School of Art and Design)
 F&N Food & Nutrition (Nutrition Science and Dietetics)
 FAS Fashion Design (School of Art and Design)
 FCS Family and Community Services (Child and Family Studies)
 FEC Family Economics (Nutrition Science and Dietetics)
 FEM Family Equipment & Managment (College of Human Ecology)
 FHN French Horn (Setnor School of Music)
 FIA Art and Music Histories (The College of Arts and Sciences)
 FIB Fiber Arts (School of Art and Design)
 FIL Film (School of Art and Design)
 FIN Finance (The Martin J. Whitman School of Management)

FLL Foreign Languages and Literatures (The College of Arts and Sciences)
 FLM Film (S.I. Newhouse School of Public Communications)
 FLT Flute (Setnor School of Music)
 FND Foundation (School of Art and Design)
 FRC FRC (Nutrition Science and Dietetics)
 FRE French and Francophone Studies (The College of Arts and Sciences)
 FSC Forensic Science (The College of Arts and Sciences)
 FSH Fashion Illustration (School of Art and Design)
 FSM Food Service Management (College of Human Ecology)
 GED General Education (The College of Arts and Sciences)
 GEO Geography (The College of Arts and Sciences)
 GER German (The College of Arts and Sciences)
 GET Global Enterprise Technology (School of Information Studies)
 GFO General Forestry (University College)
 GOL Earth Sciences (The College of Arts and Sciences)
 GRA Graphic Arts (S.I. Newhouse School of Public Communications)
 GRE Greek (The College of Arts and Sciences)
 GRK World Language Program: Greek (The College of Arts and Sciences)
 GTR Guitar (Setnor School of Music)
 HAU World Language Program: Hausa (The College of Arts and Sciences)
 HBR World Language Program: Hebrew (The College of Arts and Sciences)
 HEA Health and Physical Education (School of Education)
 HEB Hebrew (The College of Arts and Sciences)
 HED Higher Education (School of Education)
 HEE Home Economics Education (Nutrition Science and Dietetics)
 HEM Housing Equip & Mgmt (Nutrition Science and Dietetics)
 HGP Humanities Doctoral Program (The College of Arts and Sciences)
 HIN Hindi (The College of Arts and Sciences)
 HIP Housing & Interior Planning (Nutrition Science and Dietetics)
 HIS History (The College of Arts and Sciences)
 HNG World Language Prog: Hungarian (The College of Arts and Sciences)
 HNR Honors Program (The College of Arts and Sciences)
 HOA History of Art (The College of Arts and Sciences)
 HOM History of Music (The College of Arts and Sciences)
 HPD Harpsichord (Setnor School of Music)
 HPM Hospitality Management (College of Human Ecology)
 HRM Human Resource Management (The Martin J. Whitman School of Management)
 HRP Harp (Setnor School of Music)
 HSH Human Services and Health Professions (College of Human Ecology)
 HST History (The College of Arts and Sciences)
 HTW Health and Wellness (Health and Wellness)
 HUD Human Development (Nutrition Science and Dietetics)
 HUM Humanities (The College of Arts and Sciences)
 HUN Human Nutrition (Nutrition Science and Dietetics)
 ICC Interactive Communications Core (S.I. Newhouse School of Public Communications)
 IDE Instructional Design, Development, and Evaluation (School of Education)
 IDN World Lang Prog: Indonesian (The College of Arts and Sciences)
 IDP Interdisciplinary Programs (The College of Arts and Sciences)
 ILL Illustration (School of Art and Design)
 INB International Business (The Martin J. Whitman School of Management)
 IND Industrial Design (School of Art and Design)
 INE Industrial Engineering (L.C. Smith College of Engineering and Computer Science)
 INS Insurance (The Martin J. Whitman School of Management)
 INT Intermedia (S.I. Newhouse School of Public Communications)
 IOR Industrial Engineering and Operations Research (L.C. Smith College of Engineering and Computer Science)
 IPD Home Furnishings (Nutrition Science and Dietetics)
 IRG World Lang Prog: Irish-Gaelic (The College of Arts and Sciences)
 IRP International Relations (The College of Arts and Sciences)
 ISA Independent Study Degree Program (The College of Arts and Sciences)
 ISD Interior Design (School of Art and Design)
 ISE Industrial Systems Engineering (L.C. Smith College of Engineering and Computer Science)

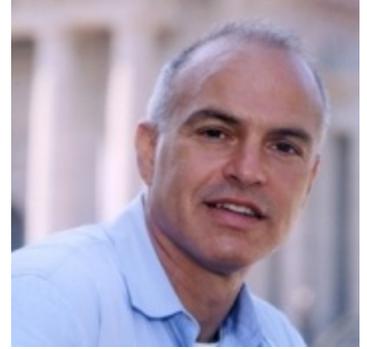
ISH Independent Study Degree Program (College of Human Ecology)
 ISM Independent Study Degree Program (The Martin J. Whitman School of Management)
 ISP Independent Study Degree Program (University College)
 IST Information Studies (School of Information Studies)
 ISX Independent Study Degree Program (Maxwell School of Citizenship and Public Affairs)
 ITA Italian (The College of Arts and Sciences)
 ITE Instructional Technology (School of Education)
 JAM Jewelry and Metalsmithing (School of Art and Design)
 JAP Japanese (The College of Arts and Sciences)
 JNL Journalism (S.I. Newhouse School of Public Communications)
 JPN World Language Prog: Japanese (The College of Arts and Sciences)
 JPS Japanese (The College of Arts and Sciences)
 JSP Judaic Studies Program (The College of Arts and Sciences)
 KBI Keyboard Instruments (Setnor School of Music)
 KOR World Language Prog: Korean (The College of Arts and Sciences)
 LAN Self-Instructional Language (The College of Arts and Sciences)
 LAS Latino-Latin American Studies (The College of Arts and Sciences)
 LAT Latin (The College of Arts and Sciences)
 LAW Law (College of Law)
 LGL Legal Studies (University College)
 LIN Linguistics (The College of Arts and Sciences)
 LIT Literature in English Translation (The College of Arts and Sciences)
 LPP Law and Public Policy (The Martin J. Whitman School of Management)
 MAE Mechanical and Aerospace Engineering (L.C. Smith College of Engineering and Computer Science)
 MAG Magazine (S.I. Newhouse School of Public Communications)
 MAR Marketing Management (The Martin J. Whitman School of Management)
 MAS Managerial Statistics (The Martin J. Whitman School of Management)
 MAT Mathematics (The College of Arts and Sciences)
 MAX Maxwell (The College of Arts and Sciences)
 MBC Master of Business Core (The Martin J. Whitman School of Management)
 MDE Mathematics Education (School of Education)
 MDS Management Data Systems (The Martin J. Whitman School of Management)
 MEE Mechanical Engineering (L.C. Smith College of Engineering and Computer Science)
 MES Middle Eastern Studies (The College of Arts and Sciences)
 MET Metalsmithing (School of Art and Design)
 MFE Manufacturing Engineering (L.C. Smith College of Engineering and Computer Science)
 MFT Marriage and Family Therapy (Marriage and Family Therapy)
 MGT School of Management (The Martin J. Whitman School of Management)
 MHL Music History and Literature (Setnor School of Music)
 MIC Microbiology (The College of Arts and Sciences)
 MIS Management Information Systems (The Martin J. Whitman School of Management)
 MNO Magazine, Newspaper, and Online Journalism (S.I. Newhouse School of Public Communications)
 MOT Management of Technology (The Martin J. Whitman School of Management)
 MPD Multimedia, Photography and De (S.I. Newhouse School of Public Communications)
 MPH Master of Public Health (Maxwell School of Citizenship and Public Affairs)
 MPS Metropolitan Studies (The College of Arts and Sciences)
 MTA Music Theory Analysis (Setnor School of Music)
 MTC Music Theory (Setnor School of Music)
 MTD Mathematics Education (School of Education)
 MTP Music Theory Performance (Setnor School of Music)
 MTS Materials Science (L.C. Smith College of Engineering and Computer Science)
 MTW Music Theory Writing (Setnor School of Music)
 MUE Music Education (Setnor School of Music)
 MUH Music History (Setnor School of Music)
 MUI Music Industry (Setnor School of Music)
 MUL Music Literature (Setnor School of Music)
 MUS Museum Studies (School of Art and Design)
 NAS Nondepartmental Arts and Sciences (The College of Arts and Sciences)
 NAT Native American Studies (The College of Arts and Sciences)
 NEU Neuroscience (L.C. Smith College of Engineering and Computer Science)
 NEW Newspaper (S.I. Newhouse School of Public Communications)

NHM Nutrition and Hospitality Management (Nutrition Science and Dietetics)
 NOR World Language Prog: Norwegian (The College of Arts and Sciences)
 NPR NPR (S.I. Newhouse School of Public Communications)
 NSD Nutrition Science and Dietetics (Nutrition Science and Dietetics)
 O&M Organization and Management (The Martin J. Whitman School of Management)
 OBO Oboe (Setnor School of Music)
 OCD Organizational Change and Development (The Martin J. Whitman School of Management)
 OGL Organizational Leadership (University College)
 OPM Operations Management (The Martin J. Whitman School of Management)
 ORG Organ (Setnor School of Music)
 PAF Public Affairs and Citizenship (The College of Arts and Sciences)
 PDG Pedagogy of Theory (Setnor School of Music)
 PED Physical Education (School of Education)
 PER Performance Recital (Setnor School of Music)
 PHI Philosophy (The College of Arts and Sciences)
 PHO Photography (S.I. Newhouse School of Public Communications)
 PHY Physics (The College of Arts and Sciences)
 PIR Personnel Relations (The Martin J. Whitman School of Management)
 PLA Planning Prgm(Grad) (The College of Arts and Sciences)
 PNO Piano (Setnor School of Music)
 POL Polish (The College of Arts and Sciences)
 POR Portuguese (The College of Arts and Sciences)
 POS Political Studies (The College of Arts and Sciences)
 PPA Public Administration (The College of Arts and Sciences)
 PPE Professional Physical Education (School of Education)
 PRC Percussion (Setnor School of Music)
 PRL Public Relations (S.I. Newhouse School of Public Communications)
 PRS Persian (The College of Arts and Sciences)
 PRT Printmaking (School of Art and Design)
 PSC Political Science (The College of Arts and Sciences)
 PSY Psychology (The College of Arts and Sciences)
 PTG Painting (School of Art and Design)
 PTS Technology and Society (L.C. Smith College of Engineering and Computer Science)
 QSX Queer Sexuality (The College of Arts and Sciences)
 QUM Quantitative Methods (The Martin J. Whitman School of Management)
 RAE Recording and Allied Entertainment (Setnor School of Music)
 RCE Rehabilitation Counselor Education (School of Education)
 RCS Retailing and Consumer Studies (College of Visual and Performing Arts)
 RDR Recorder (Setnor School of Music)
 REC Recreation (School of Education)
 RED Reading and Language Arts (School of Education)
 REL Religion (The College of Arts and Sciences)
 RES Real Estate (The Martin J. Whitman School of Management)
 RET Retailing (College of Visual and Performing Arts)
 RMT Retail Management (The Martin J. Whitman School of Management)
 ROL Romance Languages and Literatures (The College of Arts and Sciences)
 RTN Radio/Television News (S.I. Newhouse School of Public Communications)
 RUS Russian (The College of Arts and Sciences)
 SAN Sanskrit (The College of Arts and Sciences)
 SAS South Asian Studies (The College of Arts and Sciences)
 SCE Science Education (School of Education)
 SCI Science Teaching (The College of Arts and Sciences)
 SCM Supply Chain Management (The Martin J. Whitman School of Management)
 SCU Sculpture (School of Art and Design)
 SED Secondary Education (School of Education)
 SES Sensory Research (L.C. Smith College of Engineering and Computer Science)
 SHE Speech Education (College of Visual and Performing Arts)
 SHR Strategy and human Resources (The Martin J. Whitman School of Management)
 SLA Slavic (The College of Arts and Sciences)
 SNH World Language Prog: Sinhalese (The College of Arts and Sciences)
 SOC Sociology (The College of Arts and Sciences)

SOL Soling Program (The College of Arts and Sciences)
 SOM School of Management (The Martin J. Whitman School of Management)
 SOS Social Science (The College of Arts and Sciences)
 SPA Spanish (The College of Arts and Sciences)
 SPC Speech Communication (Communication and Rhetorical Studies)
 SPD Surface Pattern Design (School of Art and Design)
 SPE Special Education (School of Education)
 SPM Sport Management (Sport Management)
 SPP Audio & Speech Path (School of Education)
 SRC Serbo-Croatian (The College of Arts and Sciences)
 SST Solid-State Science and Technology (L.C. Smith College of Engineering and Computer Science)
 STA Studio Arts (School of Art and Design)
 STI String Instruments (Setnor School of Music)
 STR Studio Research (School of Art and Design)
 STS Science, Technology, and Society (The College of Arts and Sciences)
 STT Applied Statistics (The College of Arts and Sciences)
 SWA Kiswahili (The College of Arts and Sciences)
 SWE World Language Prog: Swedish (The College of Arts and Sciences)
 SWH World Language Prog: Swahili (The College of Arts and Sciences)
 SWK Social Work (School of Social Work)
 SXP Saxophone (Setnor School of Music)
 SYE Synaesthetic Education (School of Education)
 TCM Telecommunications (S.I. Newhouse School of Public Communications)
 TDM Transportation and Distribution (The Martin J. Whitman School of Management)
 TEA Textile Arts (School of Art and Design)
 TEL Telecommunications (L.C. Smith College of Engineering and Computer Science)
 TEX Textiles (School of Art and Design)
 TGL World Language Prog: Tagalog (The College of Arts and Sciences)
 TML Tamil (The College of Arts and Sciences)
 TRB Trombone (Setnor School of Music)
 TRF Television, Radio, and Film (S.I. Newhouse School of Public Communications)
 TRK Turkish (The College of Arts and Sciences)
 TRM Transmedia (School of Art and Design)
 TRP Trumpet (Setnor School of Music)
 TUR World Language Prog: Turkish (The College of Arts and Sciences)
 TVR Tv/Radio (S.I. Newhouse School of Public Communications)
 UCS University Coll Ceramics (School of Art and Design)
 UFA University Coll Fiber Art (School of Art and Design)
 UFD University Coll Foundation (School of Art and Design)
 UKR Ukrainian (The College of Arts and Sciences)
 UPG University Coll Painting (School of Art and Design)
 UPT Univ Coll Printmaking (School of Art and Design)
 URD World Language Program: Urdu (The College of Arts and Sciences)
 URP Undergraduate Research Program (The College of Arts and Sciences)
 VCO Violoncello (Setnor School of Music)
 VIC Visual Communications (School of Art and Design)
 VID Art Video (School of Art and Design)
 VIE World Lang Prog: Vietnamese (The College of Arts and Sciences)
 VLA Viola (Setnor School of Music)
 VLN Violin (Setnor School of Music)
 VOC Voice (Setnor School of Music)
 VPA VPA (College of Visual and Performing Arts)
 WGS Women's and Gender Studies (The College of Arts and Sciences)
 WLP World Language Program (The College of Arts and Sciences)
 WRT Writing Program (The College of Arts and Sciences)
 WSP Women's and Gender Studies Program (The College of Arts and Sciences)
 WWI Woodwind Instruments (Setnor School of Music)

School Of Architecture

Mark Robbins, Dean
201 Slocum Hall
soa.syr.edu



About The College

Dean's Message

Architecture is a complex discipline that organizes diverse human needs and interests, ranging from the pragmatic to the visionary. Syracuse Architecture offers a professional education rooted in a humanistic tradition. This intellectual rigor enhances the understanding of the formative interaction between buildings and culture. Our intent is to educate broadly and to approach skill and technique with the same vitality as a comprehensive knowledge of the world.

The studio experience, at the core of both our undergraduate and graduate programs, focuses on the intense exploration of the creative process, supported by the most challenging approaches to history and theory in the context of the technologies that inform the future practice of our field. Students benefit from extensive one-on-one communication with faculty, in both formal reviews and informal interactions.

As part of its curriculum, the School of Architecture offers a series of lectures, symposia, and exhibitions featuring leading practitioners, critics, and scholars. Situated in a major liberal arts university, students have access to a wide variety of courses throughout the campus and are encouraged to participate in life outside the studio—in other academic units, in the city of Syracuse, and beyond. Our goal is to set a lightning eye toward the future through innovative approaches to the physical as well as social landscape, and to prepare each student to respond with skill, intellect, and passion to the challenges on the path that each one constructs.

Mark Robbins
Dean

For further information about the School of Architecture, please visit our website.

Mission Statement

As a professional-degree-granting college within a research university, the School of Architecture at Syracuse University is dedicated to creating a rich academic environment marked by the confluence of advanced practice, contemporary theory, and social engagement. Our primary goal is to help students develop the capacity and judgment necessary to understand the built environment and generate architecture as a critical response, so that each student can engage both the discipline of architecture and the multiple discourses—artistic, technological, social, political, environmental, economic—necessary to be a successful practitioner and a conscientious citizen. Through our teaching and public programming, we help students gain a deep knowledge of architecture's techniques, traditions, methods of inquiry, and modes of production, so that they emerge with the intellectual breadth and acuity to meet the challenges of a rapidly changing world that demands agility and innovation. Through both programming and outreach activities, we aim to engage a wider public audience in a dialogue about the role of architecture in society.

To serve this mission we are committed to the following principal objectives:

- Recruiting, enrolling, and retaining the most qualified students.
- Recruiting, employing, and retaining the most qualified faculty and staff.
- Creating and sustaining a supportive academic environment marked by academic integrity, cultural diversity, and social responsibility.
- Providing the best professional education possible by offering professional degree programs that combine expertise specific to the discipline of architecture with critical thinking skills and intellectual knowledge central to humanistic study.
- Teaching an integrated curriculum within which courses in design and other specializations support the proposition, exploration, and development of architectural ideas.
- Maintaining and enhancing our expertise and capabilities in significant areas of research and practice.
- Providing opportunities for students to participate in international study programs to better understand the global forces and local cultural contexts that contribute to the production of architecture and urban design in these settings.
- Offering visiting critic studios both on and off campus that provide students with an exposure to alternative perspectives and advanced building practices.
- Demonstrating overall competency through a self-directed process of research, documentation, proposition, and project development within the capstone experience of thesis.
- Increasing student awareness of and ability to engage with major issues such as social equity, economic development, and ecological balance.
- Encouraging faculty and students to participate in interdisciplinary initiatives offered within a diverse and rich campus setting.
- Preparing graduates to enter the profession in a variety of ways, with strong basic design skills coupled with the technical ability, business acumen and an understanding of the ethical role of the architect in society.
- Supporting faculty achievement in creative activity and scholarly research.
- Generating advocacy and support for School initiatives from alumni, faculty, staff, and advisory board members, and among civic and business leaders.

Studio Culture Policy

The primary goals of the School of Architecture at Syracuse University are to promote research into architecture and to educate students for professional practice and other forms of architectural engagement. Faculty instructors challenge students to develop the capacity for understanding the built environment and generating architectural design proposals as a critical response. They assist students in cultivating manifold design capabilities linked to critical intelligence about the discipline and supported by state-of-the-field expertise in representation, technology, structures, theory and history.

A central component of this mission is the cultivation of a learning environment that supports students in the fullest development of their capacities as designers, scholars, professionals, and citizens. To this end, students, faculty and staff are dedicated to the task of working together to foster five fundamental values:

- mutual respect among all members of the School

- optimism about the potential for student learning, creativity and contribution
- collaboration among students, faculty, staff and the broader public in pursuing advances in learning, knowledge, and practice
- critical engagement with the discipline, the profession and the world
- continual innovation in teaching, learning, and research

These values inform all of our activities. In the context of classrooms, studios, and other learning environments, they translate into these guidelines:

- The School encourages students and faculty alike to embrace the design studio and the classroom as places of intellectual and creative exploration and collaboration. The frequently open-ended pursuit of knowledge through design and other forms of learning requires generosity of spirit on all parts, including the recognition that faculty members bring a high level of expertise to their teaching and that students bring a diversity of valuable prior knowledge to their learning. It also requires clear communication, rigorous testing of ideas, and a commitment to excellence on the part of all participants.
- The School encourages collaboration among students in their academic work and in extracurricular activities, as well as among students, faculty and staff in continually advancing knowledge and improving the ways we work together. It also promotes a culture of engagement in which students develop intellectually, technically and ethically through interaction with problems, opportunities and people not only within the field of architecture but also beyond it.
- The School values social, intellectual and disciplinary diversity in its staff, faculty and student population, as well as in its curriculum. In its teaching, research and daily activities, it strives to support and promote each of these kinds of diversity.
- The School recognizes that balance is a crucial element in the pursuit of excellence, and it encourages faculty to guide students in developing the capacity to reconcile what often seem to be competing imperatives in their work and in their lives. This includes managing expectations so as to minimize conflicts among courses, helping students to manage their time effectively, and promoting an appropriate balance between academic work and the other essentials of life.
- The School expects students to uphold the principles of academic integrity in their work and ethical conduct in their daily lives. Honesty, trustworthiness and fairness are essential attributes for conduct in class, within the university community, and in academic activities beyond Syracuse. These principles should guide behavior not only in the completion of course assignments, but also in treatment of buildings and equipment; interaction with university staff, systems and procedures; and behavior in the studio and elsewhere.

Undergraduate Program

Chair Jonathan Massey, 201 Slocum Hall
 Contact School of Architecture, 315-443-2256

The Syracuse University School of Architecture offers one of the most distinguished undergraduate programs in the nation leading to a professional bachelor of architecture degree. Founded in 1873, the school provides a comprehensive and intellectually challenging approach to the design of the built environment. It is a course of study that recognizes the mix of art and technology, and responds to the changing demands of the profession and society.

The design studio sequence is at the core of the five-year undergraduate program and is unique to architectural education. It is here that students begin to understand the fundamentals of design, working alongside their classmates. Instruction takes place at the desk through extensive one-on-one communication with dedicated professors, and in formal and more casual reviews of work. In addition to studio and class work the school hosts a renowned lecture series, as well as symposia and exhibitions by leading architects, critics, and scholars, many of whom also participate in studio reviews held throughout the semester.

Our faculty members are recognized for their level of commitment to each student's progress and represent a broad range of the profession, from practicing architects, architectural historians, and theorists to professional artists and engineers.

Upper-level students have the option of study in New York City and abroad through programs in Florence, Italy; and London, England. They also have the opportunity to select a visiting critic studio led by notable architects from across the nation and abroad. These design studios explore advanced architectural issues, computer applications, and fabrication techniques.

Prospective students may apply to the school for fall admission. All applicants must submit a portfolio of work and are encouraged to arrange a visit to the school and complete an interview with a faculty member. Students from other schools of architecture may apply for fall admission to the first or second years of the B.Arch. program. Acceptance is based upon the assessment of appropriate transfer credits and submission of a portfolio of work. An interview is strongly recommended.

There are a variety of other opportunities to study architecture at the school. Students in other colleges may minor in architecture or pursue a major or minor in the history of architecture; high school students may spend a summer in the pre-college program; and two graduate programs for advanced study in architecture are offered. For information on the major or minor in the history of architecture, please see Art and Music History under the College of Arts and Sciences. The minor in architecture is described in the Bachelor of Architecture program.

General Regulations

For academic rules and regulations that apply to all University students, see the "Academic Rules" link at the top of this page.

Intra-University Transfer

Syracuse University students interested in intra-University transfer to the School of Architecture must have a minimum 3.0 grade point average, prepare and submit a portfolio of creative work, and participate in a personal interview. No mid-year transfers are accepted.

For further information our undergraduate program, please visit our website.

Global Campus Programs

Contact Associate Dean's Office, 315-443-3324

The Programs

Syracuse Architecture offers opportunities for advanced-level architecture students to spend a semester or a summer studying in one of our global campus centers – New York City, Florence, or London. Undergraduate students typically study away in the fourth year of the B.Arch program. Virtually 100% of students study away for a single semester, but opportunity exists to enroll for two consecutive semesters as well - 50% of our students choose to study away for a full year. Our programs are also open to non-SU students who study architecture and are currently enrolled in an accredited architecture program. Special scholarship opportunities exist to aid students in taking advantage of study away programs.

Florence

As part of the Florence Architecture Program, established in 1980, students engage the traditional European city and gain an international perspective on design and theory. Annual symposia attract European architects and international critics who are in the forefront of the profession, and there are extensive field trips to sites of architectural significance such as Venice, Milan, Rome, Lucca, Bologna, and Pisa. The Florence Center includes five separate structures that house classrooms, lecture halls, a library, computer clusters, language center, and gardens. The recently renovated architectural studios are housed in 19th-century artist studios on Piazza Donatello, just a 15-minute walk from the historic center of Florence.

London

The London program is based at the Syracuse University London Center in central London, near Covent Garden and the British Museum. As in Florence, the program is structured around a design studio and includes history courses and a field studies seminar exploring the historic and contemporary architecture of London, with excursions to other cities including Cambridge, Oxford, Bath, and Edinburgh. Students may also select from the wide range of non-professional courses available to satisfy elective requirements. The program is staffed by London-based faculty and includes guest lecturers and visiting critics drawn from the extensive London architecture community.

New York City

The New York City program at 171 Madison Avenue offers opportunity to study in one of the most architecturally rich and culturally vibrant cities in the world. The curriculum focuses on the city's history, urban morphology, planning, real estate development, as well as urban theory. The program draws on Syracuse Architecture faculty and NYC-based critics, combined with guest lecturers, collateral programming, and extensive field studies in and around the city.

Short-Term/Summer Global Programs

In addition to the regular semester offerings, summer and other 2-5 week study away opportunities, including the “Three Cities” program, are easy and attractive options that play an integral part of the undergraduate curriculum. Previous programs have taken students to Turkey, Greece, Germany, Russia, Spain, Austria, China, and Japan.

For further information about our Global Campus Programs, please visit our website.

Facilities

Slocum Hall, the School of Architecture's campus home, offers an ideal environment for teaching, research, production, and exhibition. Constructed in 1918 and listed on the National Register of Historical Places, the five-story building recently underwent a dramatic redesign to enhance and restore original qualities while updating it technologically, functionally, and aesthetically. Slocum Hall now includes a vast open central atrium space, a new auditorium and gallery, as well as expanded studio, research, and office space.

The building's openness provides a cohesive setting that generates activity and communication between students, faculty, and visitors, supported by interconnecting vertical spaces or atria within the building. The central atrium and additional openings in the bearing wall allow pathways for natural light and ventilation. Facilities are closely integrated with the school's pedagogical priorities. Public review spaces, an exhibition gallery, the architecture reading room, faculty offices, and the café are located along the perimeter of these atria in order to encourage collaboration and exchange.

Fabrication Labs

Technology is incorporated at many levels of a student's education at the School of Architecture. State-of-the-art equipment includes plotters, flatbed and large format scanners, render farm, vacuum former, laser cutters, foam cutter, CNC mill, and a 3D printer. All equipment, hardware and software recommendations, computer accounts, and computer labs are supported by a knowledgeable and helpful fulltime staff.

The fully equipped model shop is staffed by a full-time professional instructor and includes such woodworking equipment as saws, drills, planers, routers, sanders, a lathe, and various hand tools. There is also a ventilated spray booth for painting and finishing.

Reading Room And Library

Bird Library, the University research library, has an excellent collection of more than 10,000 architecture titles. In addition, the Architecture Reading Room on the third floor of Slocum Hall serves the needs of the School of Architecture and its students for quick access to course reserves, current periodical titles, and reference works. The general stack collection of more than 2,500 titles includes such commonly used architecture books as history surveys, monographs on key figures in architecture, technical sources, and reference standards. The Architecture Reading Room also houses a significant collection of prints of architectural working drawings. It provides a quiet and convenient place to study between classes, and is supported by the Syracuse University library system.

The Warehouse

The School maintains a downtown Syracuse presence at The Warehouse in Armory Square, located in one of the most vital, pedestrian-oriented parts of the city. The Warehouse serves as headquarters for UPSTATE: A Center for Design, Research, and Real Estate as well as selected visiting critic studios. It is the perfect setting for students to understand the intricate relationship among architecture, design, and the public realm.

NAAB Accreditation

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accreditation Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture,

recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a six-year, three-year, or two-year term of accreditation, depending on the extent of its conformance with established educational standards.

Master's degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

Academic Offerings

Bachelor Of Architecture

Chair Jonathan Massey, 201 Slocum Hall
 Contact School of Architecture, 201 Slocum Hall, 315-443-2256

Faculty Bruce Abbey, Jean-François Bédard, Larry Bowne, Lori Brown, Theodore Brown, Bruce Coleman, Sekou Cooke, Julia Czerniak, Lawrence Davis, Daniel de Riva, Alexandra French, Terrance Goode, Susan Henderson, Elizabeth Kamell, Randall Korman, Kevin Lair, Mark Linder, Brian Lonsway, Jonathan Lott, Sinéad Mac Namara, Jonathan Massey, Arthur McDonald, Brendan Moran, Anne Munly, Clare Olsen, Michael Pelken, Mark Robbins, Richard Rosa, Francisco Sanin, Yutaka Sho, Edward Sichta, Timothy Stenson, Robert Svez, Marissa Tirone, Victor Tzen, Vasilena Vassilev, Jon Yoder

MAJOR REQUIREMENTS

Professional Core Courses

Course Number	Course Name	Credits
ARC 141	Introduction to Architecture	3
ARC 181,182	Representation I/II	3 each
ARC 133,134/CAS 133, 134	Introduction to History of Architecture I/II	3 each
ARC 107,108 ARC 207,208 ARC 307,308 ARC 407,408	Architectural Design I-VIII	6 each
ARC 242	Architectural Theory	3
ARC 211,311	Courses in structural design and analysis	3 each
ARC 121,222,322	Courses in architectural technology	3 each
ARC 423	Advanced Building Systems	3
ARC 332/HOA 323 ARC 335/HOA 322 ARC 336/HOA 324 ARC 337/HOA 374 ARC 338/HOA 375 ARC 431/HOA 479 ARC 432/HOA 419 ARC 433/HOA 439 ARC 435/HOA 389 ARC 436/HOA 475	Courses in history or architecture (two required)	3 each
ARC 505	Thesis Preparation	3
ARC 508	Architectural Design IX – Thesis	6
ARC 585	Professional Practice	3

Professional Electives

Eighteen credits of professional electives are required for graduation.

Course Number	Course Name	Credits
ARC 500	Selected Topics in Architecture	1-3
ARC 535	Organicism in Modern Architecture	3
ARC 536/HOA 520	Italian Urbanism: 100 Cities	3
ARC 537/HOA 510	Italian Medieval Architecture and Urbanism	3
ARC 538/HOA 423	Artistic Patronage of the Medici	3
ARC 539/HOA 571	Italian Architecture, 1909-1959	3
ARC 551	Le Corbusier 1887-1965	3
ARC 553	Collage	3
ARC 556	Rem Koolhaas: Architect, Historian, Provocateur, Document Maker	3
ARC 557	Utopia: Design and Cultural Imagination	3
ARC 563	Introduction to Computer Applications in Architecture	3
ARC 564	Drawing	3
ARC 565	Visual Design	3
ARC 566/HOA 577	Introduction to Preservation	3
ARC 571	Survey of Italian Architecture	3
ARC 572	Advanced Computer Applications to Architecture	2-3
ARC 573	American Town Planning	3
ARC 574	Reading the Landscape	3
ARC 575	Urban Housing: Building, Block, Street	3

ARC 576	Theories and Analysis of Exurbia	3
ARC 577	Visual Studies	3
ARC 578	Façade as Idea	3
ARC 579	Community Design Workshop	3

Other Electives

Open to all students in good academic standing:

Course Number	Course Name	Credits
ARC 490	Independent Study	1-6 each

An additional 42 credits of College of Arts and Sciences courses and 12 open elective-credit courses are required.

MINORS

Architecture students may choose to pursue one of the many minors available on campus. Most minors consist of 18-credit programs and some must be taken in a particular sequence. Because of the limited number of arts and sciences and open elective credits contained within the B.Arch. program, careful planning is necessary for architecture students to complete a minor.

Students who wish to pursue a minor in schools or colleges other than Arts and Sciences should note that it will be necessary to take additional credits beyond the 162 credits required for the B.Arch. degree, since only 12 credits of open electives are included in the curriculum.

A detailed description of requirements for minors may be found under the "Programs Offered" link at the top of this page. Information also may be obtained from departments offering minors not described in this catalog.

Examples of minors available:

Anthropology
 Classics
 Fine Arts
 General Management Studies
 Geography
 History
 History of Architecture
 Mathematics
 Philosophy
 Sociology

Minor In Architecture

Arts and Sciences contact

Academic Advisor/Recorder, 329 Hall of Languages, 315-443-2205

Architecture contact

Karen Holl, Manager of Advising & Records, 201 Slocum Hall, 315-443-5075

Faculty Bruce Abbey, Jean-François Bédard, Larry Bowne, Lori Brown, Theodore Brown, Bruce Coleman, Sekou Cooke, Julia Czerniak, Lawrence Davis, Daniel de Riva, Alexandra French, Terrance Goode, Susan Henderson, Elizabeth Kamell, Randall Korman, Kevin Lair, Mark Linder, Brian Lonsway, Jonathan Lott, Sinéad Mac Namara, Jonathan Massey, Arthur McDonald, Brendan Moran, Anne Munly, Clare Olsen, Michael Pelken, Mark Robbins, Richard Rosa, Francisco Sanin, Yutaka Sho, Edward Sichta, Timothy Stenson, Robert Svetz, Marissa Tirone, Victor Tzen, Vasilena Vassilev, Jon Yoder

Non-architecture majors may, with the permission of their home school or college, pursue a 21-credit program leading to a minor in architecture. Successful completion of the minor requires a 2.0 GPA in the 21 credits. To enroll in the minor in architecture, students may obtain a "Declaration of Minor in Architecture" form from the School of Architecture, and then secure the appropriate signatures from their home college.

To complete the minor in architecture, students must take the courses listed below. No course substitutions may be made for minor requirements.

Required Course	ARC 133/CAS 133	Introduction to the History of Architecture I (<i>Fall</i>)
Required Course	ARC 134/CAS 134	Introduction to the History of Architecture II (<i>Spring</i>)
Choose 1 Course	ARC 194 ARC 181 ARC 182	Introduction to Architectural Drawing for Nonmajors Representation I (<i>Fall</i>) Representation II (<i>Spring</i>)
Choose 1 Course	ARC 101 ARC 107/CAS 107	The Art of Architecture for Nonmajors Architectural Design I (<i>Fall</i>)
Choose 1 Course	ARC 394 ARC 108/CAS 108	Architectural Design for Nonmajors Architectural Design II (<i>Spring</i>)

Plus two courses from the following list:

Choose 2 Courses	ARC 332/HOA 323 ARC 335/HOA 322 ARC 336/HOA 324 ARC 337/HOA 374 ARC 338/HOA 375 ARC 431/HOA 479 ARC 432/HOA 419 ARC 433/HOA 439 ARC 435/HOA 389 ARC 436/HOA 475 ARC 538/HOA 423 ARC 566/HOA 577	Sixteenth-Century Italian Architecture Early Renaissance Architecture in Italy Italian 17th-Century Architecture American Architecture, Settlement to 1860 American Architecture, 1860-World War I Early Modern Architecture The City in Architectural History French Architecture: 16th and 17th Centuries Islamic Architecture Modern Architecture: The International Style to the Present Artistic Patronage of the Medici Introduction to Preservation
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Courses

Architecture

ARC 101 The Art of Architecture 3 Y
Architectural concepts and form-generating principles. Lectures present historical and contemporary examples. For students outside the School of Architecture professional degree program.

ARC 107 Architectural Design I 6 IR
Crosslisted with: CAS 107
Architectural principles through analysis, abstract exercises, and building-design problems. Use of graphic conventions and the role of drawing to convey architectural ideas.

ARC 108 Architectural Design II 6 IR
Crosslisted with: CAS 108
Continuation of basic design principles. Design problems dealing with program, context, and construction.
PREREQ: ARC/CAS107.

ARC 121 Introduction to Building Structural Systems 3 Y
The basic principles of structures and construction. Develop a conceptual framework for building systems and technologies. Provide a foundation for the ongoing exploration in upper level technology/structures courses and in the design studio.

ARC 133 Introduction to the History of Architecture I 3 IR
Crosslisted with: CAS 133
Themes, concepts, and problems in architectural history from ancient Egypt to 1500. Required for architecture majors.

ARC 134 Introduction to the History of Architecture II 3 IR
Crosslisted with: CAS 134
Themes, concepts, and problems in architectural history from 1500 to the present. Required for architecture majors.
PREREQ: ARC/CAS 133.

ARC 141 Introduction to Architecture 3 Y
Basic definitions and concepts of architecture understood as a cultural artifact, specifically in relation to the city. The formal, theoretical, and pragmatic aspects of architectural practices are investigated thematically.

ARC 181 Representation I 3 Y
Exploration of visual environment with sketchbook, pen, and pencil. Techniques, rules, and principles of representational freehand sketching and drawing as tools in the architectural process.

ARC 182 Representation II 3 Y
Continuation of ARC 181. Development of drawing skills to explore and represent space and form required in architectural design investigation, development, and presentation. Exposure to CAD.
PREREQ: ARC 181.

ARC 193 Introduction to Architectural Concepts for Nonmajors 6 Y
Architectural issues, concepts, and design principles. Lectures, field trips, and studio exercises. For students outside the School of Architecture professional degree program.

ARC 194 Introduction to Architectural Drawing for Nonmajors 3 S
Skills and visual principles for an architect; freehand drawing and drafting. Production of a sketchbook and portfolio suitable for application to professional programs. For students outside the School of Architecture professional degree program.

ARC 207 Architectural Design III 6 Y
Transition from basic design to architectural design applying principles of graphic communication and composition to architectural forms. May be repeated for credit with permission of dean's office.
PREREQ : ARC/CAS 108.

ARC 208 Architectural Design IV 6 Y
Interrelation of space, function, and structure. Continuing application of principles of graphic communication and composition. May be repeated for credit with permission of dean's office.
PREREQ: ARC 182, 207.

ARC 211 Structures I 3 Y
Introduces basic concepts of structural system behavior; gravity and lateral loads, analysis of major structural forms, and structural performance of materials.
PREREQ: ARC 121, MAT 221 OR MAT 285 OR MAT 295 OR PHY 101.

ARC 222 Building Systems Design I 3-4 Y
Introduces materials and methods of building construction, basic building assemblies, and their elements. Energy conservation and regulatory codes are also addressed.
PREREQ: ARC 121.

ARC 242 Architectural Theory 3 Y
Introduction to architectural theory beginning with the Renaissance and emphasizing nineteenth and twentieth centuries. Readings and lectures emphasizing specific relationships between theoretical work and the conventions of architectural discipline.
PREREQ: ARC 133, 134, 141.

ARC 307 Architectural Design V 6 Y
More complex problems relating space, function, and structure. Various systems of support and enclosure.
PREREQ: ARC 208.

ARC 308 Architectural Design VI 6 Y
Continuation of ARC 307. Considering external conditions as well as internal needs. Systems of identifying and ordering the design process.
PREREQ: ARC 307.

ARC 311 Structures II 3 Y
Design of structural systems; choice of appropriate materials and system, design of structural components in concrete, timber and steel, introduction to advanced topics such as earthquake loads, high rise construction, pre-stressed concrete, and indeterminate structures.
PREREQ: ARC 211. R1, 6 credits maximum

ARC 322 Building Systems Design II 3 Y
Investigates systems of architectural environmental control, movement systems, and electrical distribution. Relation to building assemblies and their elements also addressed.
PREREQ: ARC 222.

ARC 332 Sixteenth Century Italian Architecture 3 S
Crosslisted with: HOA 323; Double Numbered with: ARC 632
Major architects and theories of 16th-century architecture, emphasis on social and political background, patronage, and the education of the architect. Additional work required of graduate students.
PREREQ: ARC 134.

ARC 335 Early Renaissance Architecture in Italy 1400-1529 3 S
Crosslisted with: HOA 322; Double Numbered with: ARC 635
Architectural theory and design in Italy, 1400-1520. Additional work required of graduate students.
PREREQ: ARC 134.

ARC 336 Italian Seventeenth Century Architecture 3 IR
Crosslisted with: HOA 324; Double Numbered with: ARC 636
Complex and masterful accomplishments of individual architects within context of a mature architectural tradition and a particular social, economic, and religious milieu. Additional work required of graduate students.
PREREQ: ARC134.

ARC 337 American Architecture, Settlement to 1860 3 IR
Crosslisted with: HOA 374; Double Numbered with: ARC 637
American architectural history and theory from first settlements through federal and Georgian to various revival modes. Additional work required of graduate students.
PREREQ: ARC 134.

ARC 338 American Architecture, 1860 - World War I 3 IR
Crosslisted with: HOA 375; Double Numbered with: ARC 638
American architectural history and theory from the Civil War through various revival modes to development of new commercial and residential forms before World War II. Additional work required of graduate students.
PREREQ: ARC 134.

ARC 394 Architecture Design for Non Majors 3 Y
The determination of architectural form and the process of design. For students outside the School of Architecture professional degree program.
PREREQ: ARC 194.

ARC 397 Architectural Analysis and Design for Nonmajors 3 S
Architectural concepts, methods of analysis and design. Offered in Florence for students outside the School of Architecture professional degree program.
COREQ: ARC 398.

ARC 398 Architectural Concepts and Representation for Nonmajors 3 S

Introduction to architectural concepts and theories. Instruction in the basic conventions of architectural drawing, representation, and analysis. Conducted primarily through field trips in and around Florence.
COREQ: ARC 397.

ARC 407 Architectural Design VII 6 Y

Fourth-year required design studio. Comparative studies of European and American architecture and urbanism.
PREREQ: ARC 308.

ARC 408 Architectural Design VIII 6 Y

Advanced and intensive design studio. Students choose from a range of projects and critics.
PREREQ: ARC 308, 322.

ARC 423 Advanced Building Systems 3 S

Case studies of the interrelationships of design concepts with construction, structural, and mechanical systems. Lecture and studio.
PREREQ: ARC 308,322.

ARC 431 Early Modern Architecture 3 Y

Crosslisted with: HOA 479; Double Numbered with: ARC 731
Early modern architecture from the 1890s through the 1930s. Additional work required of graduate students.
PREREQ: ARC 134.

ARC 432 The City in Architectural History 3 IR

Crosslisted with: HOA 419; Double Numbered with: ARC 732
A single city throughout its history, or various cities at a particular time in history. Additional work required of graduate students. Permission of instructor. Additional work required of graduate students.
PREREQ: ARC 134.

ARC 433 French Architecture, Sixteenth and Seventeenth Centuries 3 IR

Crosslisted with: HOA 439; Double Numbered with: ARC 737
Architecture of the Renaissance transported from Italy to France and developed into a specifically French architecture. Outstanding achievements of more than local interest. Additional work required of graduate students.
PREREQ: ARC 134.

ARC 435 Islamic Architecture 3 IR

Crosslisted with: HOA 389; Double Numbered with: ARC 735
Major building traditions of Islam in the Middle East, North Africa, Spain, Turkey, and India elucidated through in-depth examination of major works and principles of architectural, urban, and garden design. Additional work required of graduate students.
PREREQ: HOA 105, 106, ARC 134.

ARC 436 Modern Architecture: The International Style to Present 3 Y

Crosslisted with: HOA 475; Double Numbered with: ARC 736
Architecture of the modern period since World War II. Major works and figures as framed by the larger architectural issues of the period. Additional work required of graduate students.
PREREQ: ARC 134.

ARC 490 Independent Study 1-6 S

In-depth exploration of a subject or issues. Individual independent study based on a plan submitted by the student. Admission by consent of supervising instructor or instructors and program chair. R

ARC 499 Honors Thesis 3-6 SI

ARC 500 Selected Topics 1-3 S

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ARC 505 Thesis Preparation 3 S

Preparation for architectural design thesis project, ARC 508: subject selection; program and site descriptive and analytic documents; research and development of preliminary design studies.
PREREQ: ARC 311, 322 OR 612, 622; ARC 308 OR 608.

ARC 508 Architectural Design IX-Thesis 6 S

Undergraduate thesis. Semester-long, advanced, student-originated project based on a program and research produced by the student and approved by the faculty.
PREREQ: ARC 505,423.

ARC 535 Organicism in Modern Architecture 3 IR

Seminar investigating the use of biological principles to generate architectural and urban form in American and European architecture, 1880-present.

ARC 536 Italian Urbanism: 100 Cities 3 S

Crosslisted with: HOA 520
A survey of Italian urban history: design of cities, local rituals, politics, and patronage in ancient Rome, medieval Venice, Renaissance Florence, Baroque Turin, and modern Milan. Site visits in Florence and surrounding towns. Offered only in Florence.

ARC 537 Italian Medieval Architecture and Urbanism 3 IR

Crosslisted with: HOA 510
Investigates sites, buildings, and rituals of local identity in a range of centers including monasteries, castles, hilltowns, ports, republics, and tyrannies, between 300 and 1400. Trips to Umbria and Sicily. Offered only in Florence.

ARC 538 Artistic Patronage of Medici 3 S

How the Medici family used art and architecture to transform themselves from private bankers into Grand Dukes of Tuscany, in the process creating the monuments by which we define the Italian Renaissance. Offered only in Florence.
PREREQ: FIA 105.

ARC 539 Italian Architecture, 1909-1959 3 IR

Crosslisted with: HOA 571
Italian architecture from the birth of Futurism to the end of the post-WWII reconstruction. Representative structures in Milan, Rome, Como, and Florence. Includes overnight trip to Rome. Offered only in Florence.

ARC 551 Le Corbusier 1887-1965 3 IR

The work and times of the 20th century Swiss/French architect Le Corbusier (Charles Edouard Jenneret) from several vantage points: biographical data and career development, specific themes of urban theory and social progress, his artistic production as a painter, and his formal architectural strategies.

ARC 553 Collage: Making Exploring Imagining Space 3 IR

Overlapping concepts of space between architecture and art. How space is created and understood through the method of collage. Examining, analyzing, and making two- and three-dimensional collages.

ARC 556 Rem Koolhaas: Architect, Historian, Provocateur, Document Maker 3 IR

This lecture/seminar course examines the work of contemporary Dutch architect Rem Koolhaas, investigating its historical lineage, response to cultural context, and typological innovation.

ARC 557 Utopia: Design and Cultural Imagination 3 IR

Interdisciplinary seminar investigating the discourse, forms, and evolution of utopian experiments from pre-modern to post-modern America in four themes: wilderness, pastoralism, metropolis, and spectacle.
PREREQ: HOA 106, ARC 208.

ARC 561 Survey of British Architecture 3 Y

Through a series of visits to sites and buildings across England, students are introduced to the principal architects, stylistic movements and other trends in contemporary and historical architecture in England. Offered in London only First offered in Spring 2011
COREQ: ARC 407 OR 408 OR 607 OR 608.

ARC 563 Introduction to Computer Applications in Architecture 2-3 Y

Overview of the computer and its applications to architecture. Direct involvement with the computer to resolve problems in structures, design, environmental systems, specifications, cost estimation, etc. Additional work required of graduate students.

ARC 564 Drawing 3 Y

Exercises in line and value used to investigate issues involving observing and representing form and space. Additional work required of graduate students.

PREREQ: ARC 182, ARC/NAS 108.

ARC 565 Visual Design 3 IR

Elements and principles of visual organization, perception, and communication through various two- and three-dimensional exercises.

PREREQ: ARC 208.

ARC 566 Introduction to Preservation 3 Y

Crosslisted with: HOA 577

Problems and methods in implementing continued use for quality segments of the humanly built environment.

PREREQ: ARC/NAS 134.

ARC 571 Survey of Italian Architecture 3 S

Field trips: On-site observation and study of significant buildings and spaces. May apply toward professional elective component of degree program. Offered in Italy.

COREQ: ARC 407 OR 408 OR 608.

ARC 572 Advanced Computer Applications to Architecture 2-3 Y

Individual and/or group efforts at investigating and developing new computer programming requirements for architectural applications.

ARC 573 Utopia and Transformation in Early American Town Planning 3 IR

Comparative urban analysis considering reciprocal influences of historical antecedent and utopian visions of the city in helping determine early American town and building form. Concentration on urban and architectural development of Boston, Charleston, Savannah.

PREREQ: ARC 134.

ARC 574 Reading the Landscape 3 IR

Designed exterior space; gardens, parks, and park systems. Selected historical periods and cultural conditions as a means to explore landscape form as an ever shifting construction of space, nature, and site.

ARC 575 Urban Housing - Building, Block, Street 3 IR

Focus on housing as an integral part of urban structure, both formal and sociopolitical. Relationships of residential unit to building, block, and city, as they represent the individual and community, are examined.

ARC 576 Theories & Analysis of Exurbia 3 IR

Course studies history, evolution, and contemporary condition of exurban built environment in America.

PREREQ: ARC 208.

ARC 577 Visual Studies 3 IR

Conceptual development and visual representation of the thesis idea.

PREREQ: ARC 505.

ARC 578 Facade as Idea 3 IR

Seminar in contemporary and historical examples of the phenomenon of the building facade as a primary instrument by which architecture communicates. Fourth year undergraduate or third year graduate standing.

ARC 579 Community Design Workshop 3 IR

An interdisciplinary, applied learning workshop that engages architectural and urban design initiatives involving community groups, nonprofit organizations, and government agencies in collaborative design processes.

ARC 585 Professional Practice 3 S

Legal and administrative aspects of architectural practice. The architect's role in society.

PREREQ: ARC 322.

Faculty

Bruce Abbey, Professor
M.Arch., Princeton University, 1971
Architectural design, architectural theory

Jean-François Bédard, Assistant Professor
Ph.D., Columbia University, 2003
Architectural history

Larry Bowne, Associate Professor
M.Arch., Harvard University, 1992
Architectural Design

Lori Brown, Associate Professor
M.Arch., Princeton University, 1994
Architectural design and drawing

Theodore Brown, Professor
M.Arch., Princeton University, 1981
Architectural design

Bruce Coleman, Professor
B.Arch., Cornell University, 1967
Architectural design, architectural technology

Sekou Cooke, Assistant Professor
B.Arch., Cornell University, 1999
Architectural Design

Julia Czerniak, Associate Professor
M. Arch., Princeton University, 1992
Architectural design, landscape architecture

Lawrence Davis, Associate Professor;
Coordinator, Florence Program
M. Arch., Columbia University, 1988
Architectural design

Daniel de Riva, Assistant Professor
B.Arch., Cornell University, 2008
Architectural design

Alexandra French, Assistant Professor
M.Arch., Princeton University, 2006
Architectural design

Terrance Goode, Associate Professor
M. Arch., Princeton University, 1980
Architectural design

Susan Henderson, Professor
Ph.D., Columbia University, 1989
History of architecture

Elizabeth Kamell, Associate Professor
S.M. Arch. S., Massachusetts Institute of
Technology, 1996
Architectural design

Randall Korman, Professor; Associate Dean
M.Arch., Harvard University, 1977
Architectural design

Kevin Lair, Assistant Professor
M.Arch., Harvard University, 1995
Architectural design

Mark Linder, Associate Professor
Ph.D., Princeton University, 1998
Architectural design, architectural theory

Brian Lonsway, Associate Professor
M.Arch., Columbia University, 1995
Architectural design and technology

Jonathan Lott, Assistant Professor;
Coordinator, NYC Program
M.Arch., Harvard University, 2005
Architectural design

Sinéad Mac Namara, Assistant Professor
Ph.D., Princeton University, 2006
Civil and environmental engineering

Jonathan Massey, Associate Professor;
Chair, Undergraduate Program
Ph.D., Princeton University, 2001
History and theory of architecture

Arthur McDonald, Professor
M.Arch., Cornell University, 1972
Architectural design, urban systems

Brendan Moran, Assistant Professor
Ph.D., Harvard University, 2009
Architectural design

Anne Munly, Professor
M.Arch., Princeton University, 1980
Architectural design

Clare Olsen, Assistant Professor
M. Arch., University of California, Los
Angeles, 2003
Architectural design

Michael Pelken, Assistant Professor
Dipl.-Ing. (FH) Architektur, University of
Applied Sciences, Dusseldorf (Germany), 2001
Architectural design and technology

Mark Robbins, Professor; Dean
M.Arch., Syracuse University, 1981
Architectural design, theory

Richard Rosa, Associate Professor
M.Arch., Harvard University, 1993
Architectural design

Francisco Sanin, Professor; Chair, Graduate
Program
Diploma, Universidad Pontificia Bolivariana
(Colombia), 1979
Architectural design, urban design

Yutaka Sho, Assistant Professor
M.Arch. Harvard University, 2005
Architectural design

Edward Sichta, Associate Professor
M.F.A., Syracuse University, 1969
Architectural graphics

Timothy Stenson, Associate Professor
M.Arch., University of Virginia, 1988
Architectural design, technology

Robert Svetz, Assistant Professor
M.Arch. Yale University, 2002
Architectural design

Marissa Tirone, Assistant Professor
M.Arch. II, Cornell University, 2009
Architectural design

Victor Tzen, Assistant Professor
M.Arch., Cornell University, 2008
Architectural design

Vasilena Vassilev, Assistant Professor
M.Arch., Massachusetts Institute of
Technology, 2009
Architecture

Jon Yoder, Assistant Professor
M.Arch., University of Texas at Austin, 1996
Architectural design and theory

The College Of Arts And Sciences

George M. Langford, Dean
300 Hall of Languages
thecollege.syr.edu/

About The College

The College of Arts and Sciences at Syracuse University is one of the nation's premier residential liberal arts colleges—with a curriculum that emphasizes interdisciplinary learning, research, service, and enterprise on campus, across our nation, and around the world.

As the center for undergraduate learning at SU, The College prepares students for the global workplace and for continued study in graduate and professional programs. Rigorous programs of study across our three academic divisions—the sciences and mathematics, the humanities, and the social sciences—as well as our interdepartmental and interdivisional programs, provide students with critical skills that help them launch successful careers in a vast array of fields.

Our graduate students—mentored by nationally and internationally renowned scholars, writers, and scientists—are immersed in an environment of academic rigor, research, and creativity where they develop the tools and skills needed to effect change and generate new knowledge and ideas in their chosen fields.

The College's three academic divisions house 22 departments that offer more than 50 majors, 40 minors, and 30 master's and Ph.D. programs. The College also offers a number of selected studies, independent study, dual and combined degree programs, as well as interdisciplinary degree options with SU's professional schools and colleges at both the undergraduate and graduate levels.

More Information:

On the Web:

The College of Arts and Sciences

Dean's Office

320 Hall of Languages

Phone: 315-443-2201

E-mail: casdean@syr.edu

Academic Departments

The College of Arts and Sciences is a place of discovery, creativity, and imagination that form the core of a liberal arts education at Syracuse University. Through its three academic divisions--the Sciences and Mathematics, the Humanities, and the Social Sciences (offered in collaboration with the Maxwell School of Citizenship and Public Affairs)--The College offers an eclectic array of traditional degree options as well as a number of interdisciplinary, dual, and combined-degree programs.

African American Studies
Anthropology
Art and Music Histories
Biology
Chemistry
Communication Sciences and Disorders
Earth Sciences
Economics
English
Geography
History
International Relations
Languages, Literatures, and Linguistics
Mathematics
Philosophy
Physics
Political Science
Psychology
Religion
Science Teaching
Sociology
Women's and Gender Studies
The Writing Program

Undergraduate Studies

The College of Arts and Sciences offers undergraduate students an opportunity to explore major and minor programs in each of the academic divisions: Humanities, Natural Sciences and Mathematics, and Social Sciences. Undergraduate Social Sciences courses are taught by faculty who also hold appointments in the Maxwell School of Citizenship and Public Affairs.

Interdisciplinary and Special Programs: The College offers a number of interdepartmental and interdivisional majors and minors.

For a list of the majors and minors offered, refer to Academic Offerings to the left.

Undergraduate General Regulations



For academic rules and regulations applying to all University students, see the “Academic Rules and Regulations” section of this catalog, which also contains special regulations that apply to Arts and Sciences students. The regulations below apply to all students matriculated in the College of Arts and Sciences.

DEGREES

The College of Arts and Sciences is authorized to grant the bachelor of arts (B.A.) and the bachelor of science (B.S.) degrees. Students dually enrolled in two colleges at Syracuse University are granted the appropriate degree for the home college. For example, a student in Arts and Sciences and the S.I. Newhouse School of Public Communications might receive the B.A. in political science/advertising, with Arts and Sciences as the home college. The degree(s) available for each program of study are indicated under “Major Programs” in this section of the catalog. Students who wish to complete the B.S. degree in an approved program submit a petition to the department and to the College of Arts and Sciences Student Records Office, 329 Hall of Languages.

MINIMUM REQUIREMENTS

A minimum of 120 credits of coursework is required for the B.A. or B.S. degree. For all students enrolling in the College of Arts and Sciences, 30 of the 120 credits must be taken in upper-division courses. Every major leading to the bachelor’s degree in the College of Arts and Sciences must include at least 18 credits of upper-division work (courses numbered 300 and above) in the field of study. Every B.S. degree program must include at least 30 credits of upper-division coursework in the field of study, or at least 6 credits more than the B.A. program in the same field (whichever is greater), in upper-division work in the field of study. Of the upper-division credits counted toward the completion of a major, at least 12 must be taken at Syracuse University. A maximum of six credits of coursework at the 300-level or above may overlap among all majors and minors, regardless of number. Students must earn the grade point average of at least 2.0 in upper-division courses taken at Syracuse University and counted toward the completion of a major or minor. To be eligible for graduation, students must attain the minimum grade point average of 2.0 (C) in courses taken at Syracuse University.

NINETY-SIX CREDIT RULE

Except in the dual and some selected studies programs, it is required that at least 96 credits be earned in the College of Arts and Sciences (or transferred from another institution and accepted as arts and sciences credit). In this case, up to 24 credits toward the 120 required for graduation may be taken in other Syracuse University colleges or schools or accepted in transfer as non-arts and sciences credit from other accredited institutions. In dual programs, the college requires that at least 90 credits be earned in the College of Arts and Sciences (or transferred from another institution). Up to 30 non-arts-and-sciences credits may count toward the degree. Combined degrees require 96 arts and sciences credits. The minimum total credits is 150. Under selected studies, programs leading to the B.A. degree must include at least 90 credits, and programs leading to the B.S. degree must include at least 75 credits, in Arts and Sciences. A maximum of 24 credits of the combination of independent study, experience credit or pass/fail coursework may be counted toward a degree in the college. Up to 4 credits in physical education (PED) courses numbered 100 to 299 may be included among the 24 non-Arts and Sciences credits counted toward a degree in the college for singly enrolled students. PED credits may not, however, be counted toward the dual degree in Arts and Sciences and Public Communications or Arts and Sciences and Education.

INTRA-UNIVERSITY TRANSFER

The college will accept applications for intra-university transfer on a continuing basis throughout the academic year. The application deadline for acceptance for the fall semester is July 15 and December 15 for the spring semester. All intra-university transfer applicants must attend an informational session in order to obtain their IUT application materials. These informational sessions are held periodically throughout the semester, please check in 329 Hall of Languages for the dates and times of these sessions.

Applicants who are making satisfactory progress and have a cumulative grade point average of 2.5 or above will be admitted to the College. Students with a current cumulative GPA below 2.5 are asked to submit a letter with the application, explaining the reasons for prior academic problems and why they believe they will be academically successful in the College of Arts and Sciences. Students with junior standing must also submit a major declaration form signed by their intended major department. Incomplete applications will not be considered. All applications will be reviewed at the end of the Fall and Spring semesters. Students will be notified of the admissions results via e-mail once the decisions have been made.

Advising And Academic Support

On the Web:

Advising and Academic Support

Health Professions Advising

Pre-Law Advising

Office:

329 Hall of Languages

Call: 315-443-2207

E-mail: mailto:casadvising@syr.edu

The College’s Advising and Academic Support services are designed to ensure academic success for students from the time they arrive on campus through graduation. Our professional staff members work as a team to help students make a successful transition to college, to explore their interests, to develop a plan for their academic career, and to successfully meet their academic and career goals. Specifically, our professional staff members help students

- Develop time management skills
- Identify academic enrichment opportunities
- Map strategies to improve academic performance
- Understand the Liberal Arts Core
- Select courses, majors, and minors
- Maintain steady progress toward completing degrees
- Plan for graduate school or entry into the job market

Additionally, staff members help students understand the purpose and benefits of a liberal arts education and how to effectively market a liberal arts degree to prospective employers.

Pre-professional advising services are designed for students interested in pursuing careers in the health and legal professions. Services include individual and small group, and workshops designed to enable students to successfully prepare for, and transition to, post-baccalaureate degree programs in the health and legal professions. Pre-health and pre-law advising is available to all Syracuse University and SUNY-ESF undergraduate students and alumni.

Special Note: Medical schools require applicants to obtain either a Sponsorship or Credentials letter from their respective college’s pre-health advising program.

Office:

329 Hall of Languages

Phone: 315-443-2207

Declaring A Major

Major Requirements Each student who follows the standard arts and sciences program fulfills the requirements of at least one major. The majors available under the standard arts and sciences program, including dual and combined degree programs, are described under individual headings under Academic Offerings and also on the College's website. See below for rules governing the selection of a program.

DECLARING A MAJOR

Before or during the second semester of the sophomore year, each student in the standard arts and sciences program selects a major in consultation with the academic advisor. The student applies to the department or committee administering major studies in that field for admission to the major. The Designation of Official Academic Plan Form is used for this purpose and is available for pickup in the Advising and Academic Support office, Room 329, Hall of Languages.

To declare a major officially, a student secures the signature of the appropriate department or committee chair on this form and returns the form to the Advising and Academic Support office, Room 329, Hall of Languages. Students who fail to submit a completed Official Designation of Official Academic Plan Form to the college Advising and Academic Support office before earning 54 total credits will be declared ineligible to register for subsequent semesters.

At various times, students are asked to state on other routine forms, including the admissions application, what their major will be. Such declarations are informal expressions of interest and intent and are not binding, either on the part of the student or the department (or committee). Completion of such routine forms does not secure admission to any major program. Only use of the Designation of Official Academic Plan Form, with the signature of the chair, can accomplish that end.

CHANGING MAJORS

Students may change a major at any time before registration for the last full semester of study by submitting a new Official Designation of Official Academic Plan Form with the approval of the new major department or committee.

DOUBLE MAJORS

Students may wish to declare, to fulfill the requirements for, and to graduate with two or more majors. To do so, they should indicate both majors and obtain the appropriate department signatures on the Designation of Official Academic Plan Form. The second major may be added no later than the registration period for the last full semester of study.

Special Degree Options and Combinations

Double Majors

Two majors may be pursued simultaneously in the College of Arts and Sciences or in the college and another school or college at the University. Students must fulfill all the requirements for both majors as well as all other degree requirements of the college. A single degree is conferred by the college. The two majors appear on the transcript. Of the 300-level and higher coursework offered toward the satisfaction of the requirements of the two majors, a maximum of six credits may overlap. Students singly enrolled in the college who have a second major in another school or college must still earn the minimum of 96 credits in the College of Arts and Sciences.

Please note: Arts and Sciences students may not declare the double major in any of the following areas: English education; science education; mathematics education; social studies education; advertising; broadcast journalism; graphic arts; magazine; newswriting; photography; public relations; television, radio, and film.

Liberal Arts Core

The Liberal Arts Core requirements are a set of principles that flexibly guide students to select courses and serve to define the common structural core of a liberal arts education at Syracuse. They were devised and adopted by the faculty of the college. They assure that each student's course of study includes the most important features of an education in the liberal arts. There are three fundamental parts to the Liberal Arts Core requirements: I. Liberal Skills; II. Divisional Perspective; and III. Critical Reflections.

I. LIBERAL SKILLS

The Liberal Skills Requirement asks each student to further develop fundamental intellectual skills of effective writing and gives the student a choice of whether to satisfy a requirement in second language skills or quantitative skills.

Writing Skills (3 courses)

Students are required to complete the following:

The first of these courses is chosen from Writing Studio 1: Practices of Academic Writing (WRT 105) or First Year Seminar (CAS 100) or Composition for Non-Native Speakers of English (ENL 211) .

During the second year, students will take the higher level Writing Studio 2: Critical Research and Writing (WRT 205) or Advanced Academic Writing and Research for Non-Native Speakers of English (ENL 213).

Before WRT 205 or ENL 213 is taken, students will take a Writing-Intensive course in a subject matter other than writing, a course that has been specially designed to give attention to developing writing ability while studying another subject matter

The remainder of the requirement gives students the option of demonstrating a university-level competence in either

- a language other than English, or
- the use of quantitative methods to understand and solve problems.

II. DIVISIONAL PERSPECTIVE

1. A student must take four 3- or 4-credit courses in each of the three curricular divisions of the College of Arts and Sciences: the Humanities, the Natural Sciences and Mathematics, and the Social Sciences divisions.

2. In each division, two of the courses must constitute an approved sequence.

3. Of the 12 courses used to satisfy the divisional requirement, no more than three courses may be taken from a single department or program (even if the courses of the department or program are in more than one division).

4. In each division, no more than one course may be selected from schools and colleges outside the College of Arts and Sciences.

5. In the Natural Sciences and Mathematics Division, at least one laboratory course must be included.

III. COURSES FOR THE CRITICAL REFLECTIONS REQUIREMENT

Students are required to take two courses from the list provided on the College of Arts and Sciences web site. These courses may be simultaneously used to partially satisfy other liberal arts core requirements or requirements for majors and minors.

Transfer credit is not accepted for Critical Reflections requirements except when defined in articulation agreements.

Writing Intensive Requirement

Students will take a Writing-Intensive course as a prerequisite to taking WRT 205 in their fourth semester. The courses approved for satisfying this requirement are listed below. Transfer and other credit are not accepted for the Writing Intensive Requirement.

AFRICAN AMERICAN STUDIES

AAS 138 Writing About Black Culture
AAS 233 The Caribbean Novel
AAS 234 African Fiction
AAS 235 African American Drama
AAS/WGS 303 Black Women Writers
AAS 305 African Orature
AAS 312 Pan Africanism
AAS 338 Creative Writing Workshop

ART AND MUSIC HISTORIES

HOA 106 Honors Arts and Ideas II
HOA 412 The Gothic Spell

ANTHROPOLOGY

ANT/HST 145 Introduction to Historical Archaeology
ANT 185 Global Encounters: Comparing World Views & Values Cross-Culturally
ANT/WGS 201 Transnational Feminist Studies
ANT/SAS/WGS 324 Modern South Asian Cultures
ANT/GEO/WGS 367 Gender in a Globalizing World

EARTH SCIENCES

EAR 325 Introduction to Paleobiology

ENGLISH AND TEXTUAL STUDIES

ETS 113 Survey of British Literature, Beginnings to 1789
ETS 114 Survey of British Literature, 1789 to Present
ETS 115 Topics in British Literary History
ETS 117 Survey of American Literature, Beginnings to 1865
ETS 118 Survey of American Literature, 1865 to Present
ETS 119 Topics in US Literary History
ETS 121 Introduction to Shakespeare
ETS 142 Narratives of Culture: Introduction to Issues of Critical Reading
ETS 151 Interpretation of Poetry
ETS 152 Interpretation of Drama
ETS 153 Interpretation of Fiction
ETS 154 Interpretation of Film
ETS 181 Class and Literary Texts
ETS 182 Race and Literary Texts
ETS 184 Ethnicity and Literary Texts
ETS/WGS 192 Gender and Literary Texts
ETS 235 Classics of World Literature I
ETS 236 Classics of World Literature II

GEOGRAPHY

GEO 155 (honors only) The Natural Environment
GEO 171 Human Geographies
GEO 219 American Diversity and Unity (Honors)
GEO 272 World Cultures
GEO 273 World Political Economy
GEO 353 Geographies of Environmental Justice
GEO/ANT/WGS 367 Gender in a Globalizing World

HISTORY

HST 101, HST 102 American History to 1865; American History Since 1865
HST 109 American Political Culture (Honors)
HST 111 Early Modern Europe, 1350-1815
HST 112 Modern Europe: Napoleon to the Present
HST/ANT 145 Introduction to Historical Archeology
HST 201 Research Seminar in History
HST 210 The Ancient World
HST 211 Medieval and Renaissance Europe
HST 212 Religion in Medieval & Reformation Europe
HST 310 Early Middle Ages
HST/MES 318 Introduction to Modern Middle East
HST/WGS 349 U.S. Women's History Since the Civil War
HST 398 Saints and Sinners in the Middle Ages
HST 399 Early Monasticism

JUDAIC STUDIES PROGRAM
JSP/LIT/REL 333 Yiddish Literature in Translation

LITERATURE IN TRANSLATION
LIT/REL/JSP 333 Yiddish Literature in Translation

MAXWELL SCHOOL OF CITIZENSHIP AND PUBLIC AFFAIRS
MAX 123 Critical Issues for the United States MAX 132 Global Community

MIDDLE EASTERN STUDIES
MES/HST 318 Introduction to Modern Middle East

PHILOSOPHY
PHI 107 Theories of Knowledge and Reality
PHI 109 Introduction to Philosophy (Honors)
PHI 111 Plato's Republic
PHI 172 Making Decisions
PHI 197 Human Nature
PHI/WGS 297 Philosophy of Feminism

RELIGION
REL/SAS 123 Religious Auto/Biography
REL/LIT/JSP 333 Yiddish Literature in Translation
REL/SAS 283 India's Religious Worlds

SOUTH ASIAN STUDIES
SAS/REL 123 Religious Auto/Biography
SAS/REL 283 India's Religious Worlds
SAS/ANT/WGS 324 Modern South Asian Cultures

SPANISH
SPA 465 Literature and Popular Culture in Latin America

WOMEN'S AND GENDER STUDIES
WGS 101 Introduction to Women's and Gender Studies
WGS/ETS 192 Gender and Literary Texts
WGS/ANT 201 Transnational Feminist Studies
WGS/PHI 297 Philosophy of Feminism
WGS/AAS 303 Black Women Writers
WGS/ANT/SAS 324 Modern South Asian Cultures
WGS/SWK 328 Human Diversity in Social Contexts
WGS/ANT/GEO 367 Gender in a Globalizing World

OTHER SCHOOLS AND COLLEGES
SUNY COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY
CLL 390 Introduction to the Literature of Nature
CLL 490 Literature of Nature

COLLEGE OF HUMAN ECOLOGY
SWK/WGS 328 Human Diversity in Social Contexts

Notes: Transfer and other credit are not accepted for the Writing Intensive Requirement. • These courses may not be used to satisfy the Writing Intensive Requirement if taken prior to Fall 1995.

Divisional Perspective Requirement

THE HUMANITIES DIVISION

The Humanities Division encompasses the history, theory, analysis and criticism of language, literature and other texts, religion, art, and music; and the examination of fundamental questions arising in the human search for values, knowledge, purpose, and meaning. These are central concerns of the departments or programs of African American Studies; English; Languages, Literatures and Linguistics; Fine Arts; Philosophy; Religion and Women's Studies. Hence, most courses satisfying the Humanities Division requirements come from these departments and programs.

THE HUMANITIES LIST

Students must take at least four courses from the following list, including a two-course sequence (indicated by hyphens), to complete the requirement for four courses in this division. No more than three courses may be taken from a single department or program (even if the courses of the department or program are in more than one division).

AFRICAN AMERICAN STUDIES
AAS 138 Writing About Black Culture
AAS 206/207 Introduction to African American Music; Survey of African Music
AAS 231/232 African American Literature to 1900; African American Literature: 20th and 21st C
AAS 233/234 The Caribbean Novel; African Fiction
AAS 235 African American Drama
AAS 241/REL 281- African Religions: An Introduction;
AAS/REL 345 African American Religious History
AAS 302 Contemporary African American Theater

AAS/WGS 303 Black Women Writers
AAS 304 Workshop in African American Theater
AAS 305 African Orature
AAS 331 The African American Novel: Twentieth and Twenty-First Centuries
AAS 338 Creative Writing Workshop
AAS 361/ HOA 386 Art of the Black World
AAS/WGS 403 African/Caribbean Women Writers
AAS 408 Masters of Black Music
AAS 409 History of Jazz, 1940 to Present
AAS 433 The Harlem Renaissance: Literature and Ideology
AAS 465 The Image of Blacks in Art and Film
AAS 470 Internship in African American Studies (when appropriate, by petition)
AAS 490 Independent Study (when appropriate, by petition)
AAS 540 Seminar in African American Studies (when appropriate, by petition)
AAS/REL 543 Religious Cultures of the American South

ANTHROPOLOGY

ANT 185 Global Encounters: Comparing World Views and Values Cross Culturally
ANT/LIN 202 Languages of the World
ANT 273/REL/NAT 244 Indigenous Religions
ANT 326/WGS 327 Africa Through the Novel
ANT 376 Folklore

ART AND MUSIC HISTORIES

All HOA & HOM courses.

The following are Art and Music Histories sequences:

HOA 105/106 Arts and Ideas I, II

HOM 165/166 Understanding Music I, II

HOM 195 Performance Live -and one other HOM course in the 390s or 490s (with exception of HOM 396, and 496).

HOM 285 Introduction to World Music – and one other HOM music course in the 380s or 480s.

Any two HOA or HOM courses in the 260s, 360s, and 460s.

Any two HOA or HOM courses in the 370s and 470s.

COGNITIVE SCIENCE

COG courses may be accepted by petition.

COMMUNICATION SCIENCES AND DISORDER

CSD 316 Introduction to Applied Phonetics

ENGLISH AND TEXTUAL STUDIES

All ETS courses.

A sequence can be made up of two courses chosen from any 100 level ETS course, 200 level ETS course, or the combination of ETS 242 and ETS 305

HISTORY

HST 111/112 Early Modern Europe, 1350-1815; Modern Europe: Napoleon to the Present

HST 210/211 The Ancient World; Medieval & Renaissance Europe

HST 210/212 The Ancient World; Religion in Medieval & Reformation Europe

HST 211/212 Medieval & Renaissance Europe; Religion in Medieval & Reformation Europe

HST 310 The Early Middle Ages

HST 311 Medieval Civilization

HST 312 Reformation of the Sixteenth Century

HST 320 Traditional China

HST 321 Modern China

HST 346 The Idea of Opportunity in America, 1890-1940

HST 354 Decline and Fall of the Roman Empire

HST 355 The Italian Renaissance

HST 357 Culture and Politics in Early Modern England: From Henry VIII to Elizabeth I

HST 358 Revolution and Reaction in Seventeenth Century England

HONORS

HNR 240, 340, 440 Honors Humanities Courses

HUMANITIES

All HUM courses.

JUDAIC STUDIES

All JSP courses

LANGUAGES

ARABIC All ARB courses 202 and above. BENGALI BNG courses 202 and above.

CHINESE All CHI courses 202 and above.

FRENCH AND FRANCOPHONE STUDIES

FRE 305-FRE 306 Evolution and Revolution through the Centuries; From Romanticism to Postmodernism

FRE 315-FRE 316 French Civilization; Contemporary French Culture

All FRE courses 202 and above

GERMAN All GER courses 202 and above

GREEK All GRE courses 202 and above.

HEBREW All HEB courses 202 and above.

HINDI/URDU All HIN courses 202 and above.

ITALIAN All ITA courses 202 and above.

JAPANESE All JPS courses 202 and above

KISWAHILI All SWA courses 202 and above.
KOREAN All.KOR courses 202 and above.
LATIN All LAT courses 202 and above
PERSIAN All PRS courses 202 and above.
POLISH All POL courses 202 and above
PORTUGUESE All POR courses 202 and above.
RUSSIAN
RUS/LIT 331-LIT 226 Russian Culture Through Fiction and Film; Dostoevsky and Tolstoy;
RUS/LIT 331-LIT 227 Russian Culture Through Fiction and Film; Pasternak and Solzhenitsyn
All RUS courses 202 and above.
SPANISH
SPA 301/321 Approaches to Reading Texts; Introduction to Spanish Literature
SPA 301/322 Approaches to Reading Texts; Introduction to Latin American Literature
SPA 321/322 Introduction to Spanish Literature; Introduction to Latin American Literature
All SPA courses 202 and above.
TAMIL All TML courses 202 and above
TURKISH All TRK courses 202 and above.

LATINO-LATIN AMERICAN STUDIES
LAS 302/SPA 322 Introduction to Latin American Literature
LAS/SPA 326 Beyond the Screen: Latin American and Spanish Film
LAS/SPA 402 Hispanic Journalistic Practices
LAS/PHI 425 Post-colonialism and Philosophy
LAS/SPA 433 Business Spanish
LAS/SPA 461 Nobel Prize Writers of the Spanish-Speaking World
LAS/SPA 463 Contemporary Latin American Theater
LAS/SPA 465 Literature and Popular Culture
LAS/SPA 467 Film and Literature
LAS/SPA 471 Contemporary Latin American Literature
LAS/SPA/WGS 475 Women, Myth and Nation in Latin American Literature
LAS/SPA 479 Perspectives on Mexico and Central America: Literature, Art, Film
LAS/SPA 481 The Literature of Latinos in the United States
LAS/SPA 489 Hispanic Caribbean Narrative
LAS/SPA 493 Afro-Hispanic Topics in Caribbean Literature
LAS/SPA 495 Marginal Culture in Hispanic Caribbean Literature
LAS/SPA 497 Text and Context in Cuban Revolutionary Literature

LESBIAN, GAY, BISEXUAL AND TRANSGENDER STUDIES
QX 112 Sexualities, Genders, Bodies

LINGUISTICS
LIN 201 The Nature and Study of Language
LIN/ANT 202 Languages of the World
LIN 201-LIN 251 The Nature and Study of Language; English Words
All LIN courses

LITERATURE IN TRANSLATION
LIT 101/102 Introduction to Classical Literature
LIT 101/203 Introduction to Classical Literature; Greek & Roman Epic in English Translation
LIT 101/211 Introduction to Classical Literature; Greek & Roman Drama in English Translation
LIT 102/203 Introduction to Classical Literature; Greek & Roman Epic in English Translation
LIT 102/211 Introduction to Classical Literature; Greek & Roman Drama in English Translation
LIT 203/211 Greek & Roman Epic in English Translation; Greek & Roman Drama in English Translation
LIT 226/227 Dostoevsky and Tolstoy; Pasternak and Solzhenitsyn
LIT 226/RUS/LIT 331 Dostoevsky and Tolstoy; Russian Culture Through Fiction and Film
LIT 227/RUS/LIT 331 Pasternak and Solzhenitsyn; Russian Culture Through Fiction and Film
LIT 241/242 Dante and the Medieval World; Petrarch and the Renaissance World
All LIT courses.

MIDDLE EASTERN STUDIES
MES/LIT 336 Arabic Cultures

NATIVE AMERICAN STUDIES
NAT/REL 142 Native American Religion
NAT/REL 244/ANT 273 Indigenous Religions
NAT 346/ HOA 387 Native North American Art
NAT/REL 347 Religion and the Conquest of America
NAT/REL 348 Religion and American Consumerism

PHILOSOPHY
All PHI courses.
Any two courses chosen from among the 100-level and 200-level PHI courses constitute a sequence with the following exception: the combination of PHI 171 and PHI 172 does not constitute a sequence.

RELIGION
All REL courses.
The following constitute a sequence: any two 100 level REL courses; any 100 level REL course and any of the following 200 level: REL 205, 206, 244, 246, 281, 283, 291, 294 courses; and any two of the following 200 level: REL 205, 206, 244, 246, 281, 283, 291, 294 courses

SOUTH ASIAN STUDIES

SAS/REL 123 Religious Auto/Biography
SAS/REL 165 Islam
SAS/REL 185 Hinduism
SAS/REL 186 Buddhism
SAS/REL 283 India's Religious Worlds
SAS/REL 367 Islamic Arts and Aesthetics
SAS/REL/WGS 384 Goddesses, Women, and Power in Hinduism
SAS/WGS/REL 465 Gender, Politics and Islamic Societies

WOMEN'S AND GENDER STUDIES

WGS 101-WGS/PHI 297 Introduction to Women's and Gender Studies; Philosophy of Feminism
WGS 101- Introduction to Women's and Gender Studies
All WGS courses cross-listed with ETS, FIA, PHI, & REL in addition to the following:
WGS 301 Feminist Theories
WGS/AAS 303 Black Women Writers
WGS 310 Feminist Inquiries (when appropriate, by petition)
WGS 327/ANT 326 Africa Through the Novel
WGS/SAS/REL 384 Goddesses, Women, and Power in Hinduism
WGS 400 Selected Topics (when appropriate, by petition)
WGS/AAS 403 African/Caribbean Women Writers
WGS 410 Advanced Studies in Feminist Thought (when appropriate, by petition)
WGS/SAS/REL 465 Gender, Politics and Islamic Societies
WGS 490 Independent Study (when appropriate, by petition)

WRITING PROGRAM

WRT 114 Writing Culture

OTHER SCHOOLS AND COLLEGES

SUNY COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY

CLL 390 Introduction to the Literature of Nature
CLL 490 Literature of Nature

INTERDEPARTMENTAL SEQUENCES IN THE HUMANITIES

LIN 201-PHI 251 The Nature and Study of Languages; Logic
ANT 185- Global Encounters: Comparing World Views and Values Cross Culturally;

THE NATURAL SCIENCES AND MATHEMATICS DIVISION

The Natural Sciences and Mathematics Division encompasses the investigation of natural phenomena, including the development of predictive explanatory systems, and includes the study of numerical and other abstract structures and relations. These are central concerns of the departments of Biology, Chemistry, Earth Sciences (Geology), Physics, and Mathematics. Hence most courses satisfying the Natural Sciences and Mathematics Division requirements come from these departments.

THE NATURAL SCIENCES AND MATHEMATICS LIST

Students must take at least four courses from this list, including a 2-course sequence (indicated by hyphens) and a course with a laboratory (indicated by course numbers in bold print) to complete the requirement for four courses in this division. No more than three courses may be taken from a single department or program (even if the courses of the department or program are in more than one division).

ANTHROPOLOGY

ANT 131 Introduction to Biological Anthropology
ANT 431 Human Variation
ANT 432 Disease & Human Evolution
ANT 433 Human Skeletal Anatomy

ASTRONOMY

AST 101 Our Corner of the Universe
AST 104 Stars, Galaxies, and the Universe
All AST courses.
Any two 100 level or 200 level PHY or AST courses constitute a sequence.

BIOLOGY

BIO 121, 123, 124 General Biology I & II
All BIO courses.

CHEMISTRY

CHE 103/113 Chemistry in the Modern World; Forensic Science
CHE 106, 107, 116, 117 General Chemistry
CHE 109, 129, 119, 139 General Chemistry (Honors and Majors)
Credit is given for CHE 106/116 or , CHE 109/119 but not for both.
All CHE courses.

COGNITIVE SCIENCE

COG courses may be accepted by petition.

COMMUNICATION SCIENCES AND DISORDERS

CSD 212 - CSD 315 Introduction to Communication Sciences and Disorders: Anatomy and Physiology of Speech and Hearing
CSD 212 - CSD 325 Introduction to Communication Sciences and Disorders: Fundamentals of Hearing Science
CSD 345 Fundamentals of Speech Science
CSD 409 Cognitive Neuroscience of Speech and Language

EARTH SCIENCES

First course in sequence:

EAR 101 Dynamic Earth or EAR 105 Earth Science – credit will be given for one, not both.

Second course in sequence:

EAR 102 History of Earth and Life, or EAR 106 Environmental Geology, or EAR 111 Climate Change Past and Present, or EAR 117 Oceanography, or EAR 203 Earth System Science, or EAR 225 Volcanoes and Earthquakes.

Courses can be taken in any order except for EAR 102, which requires a prerequisite of either EAR 101 or EAR 105. Prospective Earth Science majors are encouraged to take the EAR 101/102 sequence.

Any of the above courses will count toward the natural sciences and mathematics divisional requirement.

GEOGRAPHY

GEO 155 - GEO 215 The Natural Environment; Global Environmental Change
GEO 155 - GEO 316 The Natural Environment; River Environments
GEO 155 - GEO 326 The Natural Environment; The Geography of Climate and Weather
GEO 482 Environmental Remote Sensing
GEO 555 Biogeography
GEO 583 Environmental Geographical Information Systems

HONORS

HNR 250, 350, 450 Honors Natural Sciences & Mathematics Courses
HNR 255, 355, 455 Topics in Science with Laboratory Component

MATHEMATICS

MAT 285/286 Life Sciences Calculus I, II
MAT 295/296 Calculus I, II
All MAT courses above 230.

PHYSICS

PHY 101 Major Concepts of Physics I
PHY 102 Major Concepts of Physics II
PHY 211 (221) General Physics I
PHY 212 (222) General Physics II
All PHY courses.
Any two 100 level or 200 level PHY or AST courses constitute a sequence.

PSYCHOLOGY

PSY 223 Introduction to Biopsychology
PSY 323 Brain and Behavior
PSY 324 Developmental Biopsychology
PSY 334 Laboratory in Developmental Biopsychology

SCIENCE TEACHING

All SCI courses.

SCIENCE, TECHNOLOGY, AND SOCIETY

STS course may be accepted by petition.

OTHER SCHOOLS AND COLLEGES

*Apply as Non-Arts & Sciences credit

COLLEGE OF HUMAN ECOLOGY

*NSD 225 Nutrition in Health

THE SOCIAL SCIENCES DIVISION

The Social Sciences Division encompasses the history, theory, and investigation of societies, systems, regions, groups and individuals. These are central concerns of the departments of African American Studies, Anthropology, Economics, Geography, History, Political Science, Public Affairs, Psychology, Sociology, International Relations and Women's Studies. Hence most courses satisfying the Social Sciences Division requirements come from these departments.

THE SOCIAL SCIENCES LIST

Students must take at least four courses from the following list, including a 2-course sequence (indicated by hyphens) to complete the requirement for four courses in this division. No more than three courses may be taken from a single department or program (even if the courses of the department or program are in more than one division).

AFRICAN AMERICAN STUDIES

AAS/ANT 112-AAS202 Introduction to African American Studies in Social Sciences; Caribbean Society Since Independence
AAS/ANT 112- Introduction to African American Studies in Social Sciences; Comparative
AAS/SOC 254 Study of American Ethnic Communities
AAS/PSC 306- African American Politics; Politics of Africa
AAS/PSC 341
AAS 312 Pan Africanism
AAS/HST 332 African American History
AAS/HST 333 African American History

AAS/PSC 341 Politics of Africa
AAS 352 Research in African American Community Programs
AAS/SOC 353 Sociology of the African American Experience
AAS/HST 402 Slavery and Abolition
AAS/SOC 410 Seminar on Social Change
AAS 470 Internship in African American Studies (when appropriate, by petition)
AAS 490 Independent Study (when appropriate, by petition)
AAS 501 African American Sociological Practice, 1900-1945
AAS 512 African American Women's History
AAS 525 Research Methods in African American Studies
AAS 540 Seminar in African American Studies (when appropriate, by petition)

ANTHROPOLOGY

ANT 141-ANT/HST 145 Introduction to Archaeology and Prehistory; Introduction to Historical Archaeology
All ANT courses except ANT 131, 185, 202, 273, 326, 376, 431, 432, 433.

COGNITIVE SCIENCE COG courses may be accepted by petition.

COMMUNICATION, SCIENCES & DISORDERS

CSD 303 Communication in the Classroom
CSD 422 Normal Development of Speech and Language
CSD 427 Articulation Disorders

ECONOMICS

ECN 101/102 Introductory Microeconomics; Introductory Macroeconomics
ECN 203/301 Economic Ideas and Issues; Intermediate Microeconomics
ECN 203/302 Economic Ideas and Issues; Intermediate Macroeconomics
ECN 203/311 Economic Ideas and Issues: Intermediate Mathematical Microeconomics
All ECN courses.

GEOGRAPHY

GEO 103/203 America and the Global Environment; Society and the Politics of Nature
GEO 103/317 America and the Global Environment – Geography of Mountain Environments
GEO 103/353 America and the Global Environment; Geographies of Environmental Justice
GEO 103/354 HST 384 America and the Global Environment; American Environmental History and Geography
GEO 103/ 356 America and the Global Environment – Environmental Ideas and Policy
GEO 105/273 World Geography; World Political Economy
GEO 171/272 Human Geographies; World Cultures
GEO 171/273 Human Geographies; World Political Economy
GEO 272/273 World Cultures; World Political Economy
All GEO courses except GEO 155, 215, 316, 326, 555, 583.

HISTORY

HST 101/102 American History to 1865; American History Since 1865
All HST courses except HST 111, 112, 210, 211, 212, 310, 311, 312, 320, 321, 346, 354, 355, 357, 358

HONORS

HNR 260, 360, 460 Honors Social Sciences Courses

INTERNATIONAL RELATIONS

All IRP courses

LATINO-LATIN AMERICAN STUDIES

LAS 313/HST 323 Modern Latin America
LAS 318/ ANT 322 South American Cultures
LAS/GEO 321 Latin American Development
LAS/HST 322 Colonial Latin America
LAS/HST 324 Recent Latin American History
LAS/PSC 333 Politics of Latin America
LAS/PSC 358 Inter-American Relations
LAS/HST/WGS 371 Gender in Latin American History
LAS/HST/NAT 372 Race in Latin America

LESBIAN, GAY, BISEXUAL, TRANSGENDER STUDIES

QSX 111 Queer Histories, Communities, and Politics

MAXWELL

MAX 123-132 Critical Issues for the United States; Global Community
- These courses constitute a sequence and may be taken in any order.
All MAX courses except MAX 201.

MIDDLE EASTERN STUDIES

MES/HST 318 - Introduction to the Middle East; Politics of the Middle East
MES/PSC 344
MES/HST 319 The Middle East in the 20th Century
MES/PSC 345 Islam and Politics in Asia
MES/PSC 349 Politics of Iran
MES/PSC 366 Representations of the Middle East
MES/PSC 367 Oil, Water, and War
MES/HST/PSC 368 Islam and the West (taught in London only)
MES/ANT/HTW 382 Health in the Middle East

MES/ANT/IRP 468 Middle East in Anthropological Perspective

NATIVE AMERICAN STUDIES

NAT 105 Introduction to Native American Studies
NAT/ANT 323 Peoples and Cultures of North America
NAT/HST/LAS 372 Race in Latin America
NAT/SOC 441 Federal Indian Policy and Native American Identity
NAT/SOC 444 Contemporary Native American Movements
NAT/ANT 445 Public Policy and Archaeology
NAT/ANT 447 Archaeology of North America
NAT/ANT 456 Representations of Indigenous Peoples in Popular Culture
NAT/ANT 459 Contemporary Native North American Issues
NAT/ANT 461 Museums and Native Americans

PUBLIC AFFAIRS

All PAF courses.

POLITICAL SCIENCE

All PSC courses
Any two of the following PSC courses constitute a sequence.
PSC 121/129 American National Government and Politics (or Honors)
PSC 122/129 American State and Local Government and Politics
PSC 123 Comparative Government and Politics
PSC 124/139 International Relations (or Honors)
PSC 125 Political Theory
PSC/AAS 306 African American Politics
PSC/AAS 341 Politics of Africa

PSYCHOLOGY

All PSY courses except PSY 223, 252, 323, 324, 334
PSY 205/ 209, Foundations of Human Behavior (or Honors) and PSY 274 Social Psychology constitute a sequence.
PSY 205/ 209 and PSY 335 or PSY 336 or PSY 337, also constitute a sequence.

SOCIOLOGY

SOC 101/102 Introduction to Sociology; Social Problems
SOC 101/SOC/WGS 248 Introduction to Sociology; Ethnic Inequalities and Intergroup Relations
SOC 101/SOC/WGS 281 Introduction to Sociology; Sociology of Families
All SOC courses.

SOCIAL SCIENCE

All SOS courses.

SOUTH ASIAN STUDIES

SAS/ANT/WGS 324 Modern South Asian Cultures
SAS/HST 328 Ancient and Medieval India
SAS/HST 329 Making of Modern India
SAS/HST 375 British Empire

WOMEN'S AND GENDERS STUDIES

All WGS courses cross-listed with ANT, ECN, GEO, HST, PSC, PSY, & SOC in addition to the following:
WGS 310 Feminist Inquiries (when appropriate, by petition)
WGS/SWK 326 -WGS/SWK 328 Persons in Social Contexts; Human Diversity in Social Contexts
WGS/CFE 362 Youth, School and Popular Culture
WGS 400 Selected Topics (when appropriate, by petition)
WGS 410 Advanced Studies in Feminist Thought (when appropriate, by petition)
WGS/CRS 414 Gender & Communication
WGS/CFE 444 Schooling & Diversity
WGS 490 Independent Study (when appropriate, by petition)

OTHER SCHOOLS AND COLLEGES

*Apply as Non-Arts & Sciences credit

SCHOOL OF EDUCATION

CFE/HST 221 Social History of American Education (Honors)
*EDU 203 Study of Elementary & Special Education Teaching
*PPE 435 Introduction to Sports Psychology
*SPE 311 Perspectives on Disabilities

MARTIN J. WHITMAN SCHOOL OF MANAGEMENT

*LPP 255 Introduction to the Legal System

COLLEGE OF HUMAN ECOLOGY

*SWK 314/315 Social Welfare Policy and Services I, II
SWK/WGS 326 -WGS/SWK 328 Persons in Social Contexts; Human Diversity in Social Contexts

SUNY COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY

EST 390 Social Processes and the Environment

INTERDEPARTMENTAL SEQUENCES IN THE SOCIAL SCIENCES

In addition to the departmental sequences indicated on previous pages, the following interdepartmental sequences may also be used to fulfill the requirement

for a sequence in the Social Sciences.

AAS/ANT 112-AAS202 Intro to African Amer Stud in Social Sciences; Caribbean Society Since independence
AAS/ANT 112- Introduction to African American Studies in Social Sciences; Comparative
AAS/SOC 254 Study of American Ethnic Communities
ANT 111-WGS201 Introduction to Cultural Anthropology; Transnational Feminist Studies
ANT 121-GEO 272 Peoples and Cultures of the World; World Cultures
ANT 121-WGS201 Peoples and Cultures of the World; Transnational Feminist Studies
ANT 141-ANT/HST 145 Introduction to Archaeology and Prehistory; Introduction to Historical Archaeology
ECN 101-MAX 123 Introductory Microeconomics; Critical Issues for the United States
ECN 203-MAX 123 Economic Ideas & Issues; Critical Issues for the US
ECN 203-MAX 132 Economic Ideas & Issues; Global Community
GEO 171-MAX 132 Introduction to Human Geography; Global Community
GEO 272-MAX 132 World Cultures; Global Community
GEO 273-MAX 132 World Political Economy; Global Community
HST 101-MAX 123 American History to 1865; Critical Issues for the United States
HST 102-MAX 123 American History Since 1865; Critical Issues for the United States
HST/MES 318 – MES/PSC 344 Introduction to the Middle East: Politics of the Middle East
MES/HST 318 – MES/PSC 344 Introduction to the Middle East: Politics of the Middle East
PAF 101-ECN/WGS258 Introduction to the Analysis of Public Policy; Poverty & Discrimination in America
PAF 101-GEO 203 An Introduction to the Analysis of Public Policy; Environmental Problems and Policy
PAF 101-MAX 123 Introduction to Analysis of Public Policy; Critical Issue for U.S.
PAF 101-PSC 121 129 An Intro to the Analysis of Public Policy; Amer Nat'l Govt and Politics (or Honors)
PAF 101-ECN 203 An Introduction to the Analysis of Public Policy; Economic Ideas and Issues
PAF 101-HST 102 An Introduction to the Analysis of Public Policy; American History Since 1865
PSC 121/129-HST 101 American National Government & Politics (or Honors); American History to 1865
PSC 121/129-HST 102 American National Government & Politics (or Honors); American History Since 1865
PSC 121/129-HST 109 American National Government & Politics (or Honors); Amer. Political Culture (Honors)
PSC 121/129-MAX 123 American National Government & Politics (or Honors); Critical Issues for the U.S.
PSC 123-ANT 121 Comparative Government and Politics; Peoples and Cultures of the World
PSC 123-GEO 105 Comparative Government and Politics; World Geography
PSC 123-GEO 272 Comparative Government and Politics; World Cultures
PSC 123-HST 316 Comparative Government and Politics; Europe Since the Second World War
PSC 123-MAX 132 Comparative Government and Politics; Global Community
PSC 124/139-ANT 121 International Relations (or Honors); Peoples and Cultures of the World
PSC 124/139-GEO 272 International Relations (or Honors); World Cultures
PSC 124/139-GEO 273 International Relations (or Honors); World Political Economy
PSC 124/139-MAX 132 International Relations (or Honors); Global Community
PSC 124/139-WGS 201 International Relations (or Honors); Transnational Feminist Studies
PSC 125-ECN 203 Political Theory; Economic Ideas & Issues
PSC 129-GEO 219 American Nat'l Government & Politics (Honors); Amer. Diversity & Unity (Honors)
PSC/MES 344- HST/MES 318 Politics of the Middle East: Introduction to the Middle East:
SOC 101-AAS/ANT 112 Intro to Sociology; Introduction to African American Studies in Social Sciences
SOC 101-SOC/AAS 254 Introduction to Sociology; Comparative Study of American Ethnic Communities
SOC 101-MAX 123 Introduction to Sociology; Critical Issues for the United States
SOC 101-MAX 132 Introduction to Sociology; Global Community

Critical Reflections

THE CRITICAL REFLECTIONS ON ETHICAL AND SOCIAL ISSUES REQUIREMENT

Students are required to take two courses from the approved list that follows. These courses are designed to encourage students to think critically about social and ethical issues that are relevant to contemporary life. They are from a variety of departments and programs and will demonstrate the relevance of study in the liberal arts to gaining critical perspectives on aspects of contemporary society. Many of these courses may simultaneously be used to partially satisfy other Liberal Arts Core requirements.

Most of the courses that satisfy the Critical Reflections on Ethical and Social Issues Requirement promote the University's core value of diversity. They help students to reflect on the diversity of peoples, social groups and cultures that surround them in contemporary life. Many other courses in the Liberal Arts Curriculum outside those on the list of Critical Reflections courses also serve this goal.

COURSES FOR THE CRITICAL REFLECTIONS REQUIREMENT

AFRICAN AMERICAN STUDIES

AAS/ANT 112 Introduction to African American Studies in Social Sciences
AAS 202 Caribbean Society Since Independence
AAS 231 African American Literature to 1900: An Introduction
AAS 232 African American Literature: Twentieth and Twenty-First Centuries
AAS 233 The Caribbean Novel
AAS 234 African Fiction
AAS 235 African American Drama
AAS/SOC 254 Comparative Study of American Ethnic Communities
AAS/WGS 303 Black Women Writers
AAS 305 African Orature
AAS/PSC 306 African American Politics
AAS 312 Pan Africanism
AAS 331 The African American Novel: Twentieth and Twenty-First Centuries
AAS/HST 333 African American History After 19th Century
AAS 338 Creative Writing Workshop
AAS/PSC 341 Politics of Africa

AAS/SOC 353 Sociology of the African American Experience
AAS/WGS 403 African/Caribbean Women Writers
AAS/SOC 410 Seminar on Social Change
AAS 433 The Harlem Renaissance: Literature & Ideology
AAS 501 African American Sociological Practice, 1900-1945

ANTHROPOLOGY

ANT/AAS 112 Introduction to African American Studies in Social Sciences
ANT 185 Global Encounters: Comparing World Views and Values Cross Culturally
ANT/GEO/WGS 367 Gender in a Globalizing World
ANT 431 Human Variation
ANT/WGS 455 Culture and AIDS
ANT 477 Culture and Conflict

ART AND MUSIC HISTORIES

HOM 382 Music in Multicultural America
HOM 419 Music and the Media
HOA 360 Art and Identity
HOM 482 Rise of Global Pop
HOM/WGS 494 Music and Gender

EARTH SCIENCES

EAR 111 Climate change: Past & Future

ECONOMICS

ECN/WGS 258 Poverty and Discrimination in America
ECN/WGS 325 Economics and Gender

ENGLISH AND TEXTUAL STUDIES

ETS 145 Reading Popular Culture
ETS 181 Class and Literary Texts
ETS 182 Race and Literary Texts
ETS 184 Ethnicity and Literary Texts
ETS/WGS 192 Gender and Literary Texts

FRENCH AND FRANCOPHONE STUDIES

FRE 407 French Libertine Fictions
FRE 409 French Culture and Revolution
FRE 412 French Women Writers
FRE 417 "Impressions d'Afrique": Caribbean Gazes
FRE 421 Francophone African Criticism

GEOGRAPHY

GEO 171 Human Geographies
GEO 272 World Cultures
GEO 273 World Political Economy
GEO/LAS 323 Latino USA
GEO 353 Geographies of Environmental Justices
GEO 363 Cities of North America
GEO/ANT/WGS 367 Gender in a Globalizing World
GEO 372 Political Geography
GEO 440 Race and Space
GEO 558 Development and Sustainability
GEO 563 The Urban Condition

HISTORY

HST/CFE 221 Social History of American Education (Honors)
HST/MES 319 The Middle East in the Twentieth Century
HST/AAS 333 African American History After 19th Century
HST 341/PSC 329 The Modern American Presidency
HST 342/PSC 327 Modern American Political Thought
HST 347 20th Century U.S. Politics Through Fiction
HST/WGS 349 U.S. Women's History Since the Civil War
HST/LAS/WGS 371 Gender in Latin America
HST/LAS/NAT 372 Race in Latin America
HST/WGS 379 Gender and Colonialism
HST 383/PSC 326 Foundations of American Political Thought

JUDAIC STUDIES PROGRAM

JSP/REL 337 Shoah: Responding to the Holocaust

LATINO-LATIN AMERICAN STUDIES PROGRAM

LAS/SPA 463 Contemporary Latin American Theater
LAS/SPA/WGS 475 Women, Myth, Nation in Latin American Literature
LAS/SPA 481 Literature of Latinos in U.S.

LESBIAN, GAY, BISEXUAL, TRANSGENDER STUDIES

QX 111 Queer Histories, Communities and Politics
QX 112 Sexualities, Genders, Bodies

LINGUISTICS

LIN 201 The Nature and Study of Language

LITERATURE IN TRANSLATION

LIT/RUS 331 Russian Culture Through Fiction and Film

MAXWELL SCHOOL OF CITIZENSHIP AND PUBLIC AFFAIRS

MAX 123 Critical Issues for the United States

MAX 132 Global Community

MIDDLE EASTERN STUDIES

MES/HST 319 The Middle East in the Twentieth Century

MES/PSC 366 Representations of the Middle East

NATIVE AMERICAN STUDIES

NAT/REL 142 Native American Religion

NAT/REL 347 Religion and the Conquest of America

NAT/REL 348 Religion and American Consumerism

NAT/HST/LAS 372 Race in Latin America

PHILOSOPHY

PHI 171 Critical Thinking

PHI 172 Making Decisions

PHI 191 Ethics & Contemporary Issues

PHI 209 Introduction to Moral Philosophy (Honors)

PHI/WGS 297 Philosophy of Feminism

PHI 343 Philosophy of Education

PHI/PSC 363 Ethics & International Relations

PHI 411 Philosophies of Race and Identity

PHI 493 Contemporary Ethical Issues

PHI 593/REL 551 Ethics and Health Professions

POLITICAL SCIENCE

PSC/AAS 306 African American Politics

PSC 314 Public Opinion and Electoral Behavior

PSC/WGS 319 Gender and Politics

PSC 326/HST 383 Foundations of American Political Thought

PSC 327/HST 342 Modern American Political Thought

PSC 329/HST 341 The Modern American Presidency

PSC 339 Contemporary Political Transitions

PSC/AAS 341 Politics of Africa

PSC 352 International Law

PSC/PHI 363 Ethics & International Relations

PSC/MES 366 Representations of the Middle East

PSC 371 Democratic Theory and Politics

PSC/WGS 374 Law and Society

PSYCHOLOGY

PSY/WGS 329 Perspectives on Women's Health

PSY 379 The Social Psychology of Stigma

PUBLIC AFFAIRS

PAF 101 An Introduction to the Analysis of Public Policy

RELIGION

REL/NAT 142 Native American Religion

REL 252 Religious Ethics and Social Issues

REL/SAS 283 India's Religious Worlds

REL 324 Religion and Storytelling

REL 326 Religion and Film

REL/JSP 337 Shoah: Responding to the Holocaust

REL/NAT 347 Religion and the Conquest of America

REL/NAT 348 Religion and American Consumerism

REL/WGS/SAS 384 Goddesses, Women, and Power in Hinduism

REL 395 Religions and the Natural Environment

REL 551/PHI 593 Ethics and the Health Professions

RUSSIAN

RUS/LIT 331 Russian Culture Through Fiction and Film

SOCIOLOGY

SOC 102 Social Problems

SOC/WGS 230 Intergroup Dialogue

SOC/WGS 248 Ethnic Inequalities and Intergroup Relations

SOC/AAS 254 Comparative Study of American Ethnic Communities

SOC/WGS 281 Sociology of Families

SOC/AAS 353 Sociology of the African American Experience

SOC/AAS 410 Seminar on Social Change

SOUTH ASIAN STUDIES

SAS/REL 283 India's Religious Worlds

SAS/REL/WGS 384 Goddesses, Women, and Power in Hinduism

SPANISH

SPA 453 Spanish Literature (20th Century)
SPA 457 Narrative in Spain after 1940
SPA/LAS 463 Contemporary Latin American Theater
SPA 465 Literature and Popular Culture in Latin America
SPA/WGS/LAS 475 Women, Myth, Nation in Latin American Literature
SPA/LAS 481 Literature of the Latinos in U.S.

WOMEN'S AND GENDER STUDIES

WGS 101 Introduction to Women's Studies
WGS/ETS 192 Gender and Literary Texts
WGS 201 Transnational Feminist Studies
WGS/SOC 230 Intergroup Dialogue
WGS/SOC 248 Ethnic Inequalities and Intergroup Relations
WGS/ECN 258 Poverty and Discrimination in America
WGS/SOC 281 Sociology of Families
WGS/PHI 297 Philosophy of Feminism
WGS/AAS 303 Black Women Writers
WGS/PSC 319 Gender and Politics
WGS/ECN 325 Economics and Gender
WGS/SWK 326 Persons in Social Context
WGS/SWK 328 Human Diversity in Social Contexts
WGS/PSY 329 Biophysical Perspectives on Women's Health
WGS/HST 349 U.S. Women's History Since the Civil War
WGS 354 Gender, Militarism and War
WGS/CFE 362 Youth, Schooling & Popular Culture
WGS/ANT/GEO 367 Gender in a Globalizing World
WGS/LAS/HST 371 Gender in Latin America
WGS/PSC 374 Law and Society
WGS/SAS/REL 384 Goddesses, Women, and Power in Hinduism
WGS 395 Gender and Popular Culture
WGS/AAS 403 African/Caribbean Women Writers
WGS/CFE 444 Schooling & Diversity
WGS 452 Feminism and Postcolonial Studies
WGS/ANT 455 Culture and Aids
WGS/LAS/SPA 475 Women, Myth, Nation in Latin American Literature
WGS/AAS 512 African American Women's History

OTHER SCHOOLS AND COLLEGES *Apply as Non-Arts & Sciences Credit

SCHOOL OF EDUCATION

CFE/HST 221 Social History of American Education (Honors)
*EDU 310/610 The American School
*SED 522 Study of Social Studies

COLLEGE OF HUMAN ECOLOGY

*CFS 367 Child and Family in Cross-Cultural Perspectives
*SWK 314 Social Welfare Policy and Services I
*SWK 315 Social Welfare Policy and Services II
SWK/WGS 326 Persons in Social Context
SWK/WGS 328 Human Diversity in Social Contexts

SCHOOL OF INFORMATION STUDIES

*IST 443 Critique of the Information Age
*IST 456 Information Policy and Decision Making

MARTIN J. WHITMAN SCHOOL OF MANAGEMENT

*LPP 467/767 Management and Ethics

Note: Transfer and other credit are not accepted for the Critical Reflections Requirement except when defined in articulation agreements.

Special Degree Offerings

For additional information on the following options, contact: **Advising and Academic Support**

Office:

329 Hall of Languages

Call: 315-443-2207

E-mail: <mailto:casadvising@syr.edu>

Options for Study in the College of Arts and Sciences.

There are two general options for study leading to the B.A. or B.S. degree for undergraduates in the College of Arts and Sciences: the Standard Program and the Selected Studies Program.

The Standard Program involves the Liberal Arts Core, a major, electives and, perhaps, a minor or an additional major. The first two years are devoted largely to work that satisfies requirements of the Liberal Arts Core. The major is chosen by the end of the second year.

The selected studies program offers the student an opportunity to develop a highly individualized curricular plan. This program, which can lead to the B.A. or the B.S. degree, is intended to meet individual needs. It provides considerable freedom in curricular planning, but also requires greatly increased responsibility on the part of the student. Each student in the selected studies program develops a four-year program of study based on academic goals. He or she is assisted by a faculty advisor who helps to formulate an academically sound curriculum. For additional information please see Selected Studies under Undergraduate Program Offerings.

Combined Programs

The College of Arts and Sciences offers combined programs of study with certain professional schools and colleges within the University. These programs lead to two degrees and require at least 30 credits beyond the minimal requirement for one degree. This means that it generally takes five years (10 semesters) to complete a combined program. Specific requirements vary from program to program and are described under individual program headings. Students pursuing a combined program in the College of Arts and Sciences must complete all college requirements relevant to the chosen program of study. A minimum of 96 credits in the College of Arts and Sciences is required. For a general definition and requirements of a combined program and comparison with other kinds of programs, refer to the appropriate chart in the “Academic Rules and Regulations” section of this catalog.

A combined program in the College of Arts and Sciences is offered with the L.C. Smith College of Engineering and Computer Science and results in the B.A. or B.S. in Arts and Sciences and the B.S. in Engineering.

Dual Enrollments

The College of Arts and Sciences offers dual enrollments in cooperation with certain professional schools and colleges within the University. These lead to a single degree jointly authorized and certified by the cooperating schools. The standards and procedures for admission vary and are described under individual headings. With careful course selection and planning, students are able to finish within four years (eight semesters) and within the 120-126 credits required for a degree. (For a general definition and requirements of a dual program and comparison with other kinds of programs, refer to the appropriate chart in the “Academic Rules and Regulations” section of this catalog.)

Dual enrollments in Arts and Sciences are offered only with the School of Education and the S.I. Newhouse School of Public Communications.

For the Dual program offered with S.I. Newhouse School of Public Communications:

Contact Rosanna Grassi, Associate Dean, S.I. Newhouse School of Public Communications, 315 Newhouse 3, 315-443-1908 or

For the College of Arts and Sciences, contact Advising and Academic Support, 329 Hall of Languages, 315-443-2207, casadvising@syr.edu

Students in the College of Arts and Sciences who are dually enrolled in the S.I. Newhouse School of Public Communications receive the bachelor’s degree jointly awarded by both colleges.

Students complete the requirements for the B.A. degree or the B.S. degree from the College of Arts and Sciences, including at least 90 credits in Arts and Sciences coursework and an Arts and Sciences major, or a selected studies program approved by the dean of the College of Arts and Sciences. Students also satisfy requirements for a major in the S. I. Newhouse School of Public Communications, chosen from the professional fields of advertising; broadcast and digital journalism; graphic design; magazine; newspaper and online journalism; photography; public relations; or television, radio, and film. At least 122 credits, including electives, are required to graduate.

Students who wish to enroll in this program should request dual enrollment at the time of admission to the University, or they may consult the School of Public Communications about an intra-University transfer to the dual program during the first or sophomore year.

First-year students entering the dual program

Students entering the Arts and Sciences/Public Communications Dual Degree in their first year will be required to satisfy the core requirements for the dual degree by completing the requirements of the Liberal Arts Core.

Students entering the dual program after the first year and who are either singly enrolled in the College of Arts and Sciences or the S.I. Newhouse School of Public Communications satisfy the core requirements for the dual degree by completing the requirements of the school or college in which they were originally singly enrolled. In either case, the College of Arts and Sciences is the home college.

Other Special Options

Arts and Sciences/Art

Arts and Sciences/Music

Professional Option in Dentistry, Law, Medicine, Optometry, or Podiatry

Integrated Learning Majors

Integrated Learning Majors (ILMs) combine a traditional major with a newly developed set of coursework in an applied or multidisciplinary field. ILMs in forensic science, ethics and neuroscience are available.

- Forensic science is a 25- to 26-credit ILM that can complement a variety of other majors, including anthropology, biology, chemistry, physics, psychology and sociology. Like all ILMs, forensic science includes a capstone project where students make contacts with practitioners in their field and then present their findings. Designed to provide a broad exposure to the field, increasing employability in a variety of settings related to forensic science, it will not be sufficient to prepare students for forensics lab work unless it is paired with something like chemistry, anthropology or biology.
- Ethics is a 24-credit ILM encompassing the philosophical study of ethics, including theory and history; ethical issues in social science research; and the interdisciplinary study of ethical issues arising in the student’s primary major. Among the majors that can be combined with ethics are management, television/radio/film, graphic design, photography, political science, international relations, biology, public health, anthropology, psychology and sociology, as well as all majors offered by the L.C. Smith College of Engineering and Computer Science.
- Neuroscience is a 24-credit ILM that can be combined with no fewer than six majors in Arts and Sciences, including biology, communication sciences and disorders, linguistics, philosophy, physics and psychology, and with all majors in engineering and computer science. Neuroscience is a core interdisciplinary field of research. It provides an excellent complement to undergraduate training in the base majors. Elective coursework allows for pursuit of interest in a broad variety of departments, reflecting the diverse fields that constitute contemporary neural science.

Combined Bachelor’s/Master’s Degrees - Secondary Teacher Preparation Programs

School of Education contact: Marie Sarno, Teaching and Leadership Programs, 138 Huntington Hall. mrsarno@syr.edu

This combined degree option, offered by the College of Arts and Sciences and the School of Education meets the academic requirements for a New York Teaching certification for grades 7-12 in English, mathematics, a science area, or social studies. It is an alternative to the existing undergraduate Arts and Sciences/Education dual programs in these areas, and an option that often takes less time and fewer credits than earning the entire master’s degree in education after completion of a general Arts and Sciences degree.

The combined bachelor’s/master’s teacher preparation programs were designed to meet the needs of Arts and Sciences undergraduates who, because of a later decision to become a teacher, would need to add a semester or more to their undergraduate study to complete the existing undergraduate Arts and Sciences/Education program. It also serves those who want or need more flexibility in their undergraduate program than the dual undergraduate degree allows.

Both the Arts and Sciences undergraduate degree with a major related to the subject to be taught, and the School of Education master's degree are conferred at the same time, after all requirements are met – typically at the end of 5 years. Students begin taking education courses as undergraduates, including some in the fourth year that are taken for graduate credit, and apply to become graduate students for their last two semesters. Some summer study (not necessarily at SU) may be required.

The combined program has a two-stage admission process. The first stage involves meeting with the School of Education contact as early as possible to develop a plan, and, if a decision to pursue the program is made, completing a form signed by Education and a new declaration of program of study form in Arts and Science to declare the Arts and Sciences program with “Teacher Preparation/5 year” appended to the title (e.g., “History(TchrPrep/5yr)” instead of “History”). The second admission stage involves an application to graduate school. Each admission stage requires a 3.0 cumulative GPA and a 3.0 GPA in the courses from the subject to be taught. The second stage also requires successful performance in the undergraduate education courses.

The choices of Arts and Sciences majors, and the course requirements for the Arts and Sciences major, the Liberal Arts Core, and other requirements related to the major are the same for these combined programs as those for students completing the dual enrollment undergraduate Arts and Sciences/Education program. These details about specific adjustments necessary to the Liberal Arts Core and to Arts and Sciences major may be found in the section describing Dual Arts and Sciences/ Education Programs.

Because of the specific course requirements and sequencing of courses, it is important that students interested in one of these programs meet with the Education contact as soon as possible to develop a plan. EDU 204, the first education course, must be taken no later than spring of the junior year.

Other Undergraduate Programs Of The College

Center for Innovative Learning (iLEARN)

Kandice L. Salomone, Director
329 Hall of Languages, 315-443-9396
ilearn.syr.edu

The center for Innovative Learning (iLEARN) of the College of Arts and Sciences supports a variety of innovative educational programs and undergraduate research activities in the College and its departments. It also serves as a clearinghouse for information about undergraduate research and other innovative learning opportunities, as well as a source of encouragement and support for their further development.

The center helps students complement traditional classroom and laboratory work with enhanced out-of-classroom learning experiences. These experiences represent active learning at its best, tapping students' creativity, curiosity, and drive. These kinds of opportunities also enable students to apply their knowledge and skill to independent research and other scholarly projects that address real world problems, and give them the kinds of experiences helpful in making career choices.

Programs Offered:

- Undergraduate Research Program
- The Syracuse University Undergraduate Mock Trial Program
- Ruth Meyer Undergraduate Research Scholars Program
- The Syracuse University Debate Society

Funding Opportunities

iLEARN has funds available for use by Arts and Sciences undergraduate students, faculty, and departments/programs for eligible projects. Eligibility is dependent on a project's relevance to the types of educational activities listed in the mission statement. Inquiries should be made to the director of iLEARN.

Courses/Credits

Each credit-earning program listed under iLEARN has its own courses or credit-bearing numbers available for use by eligible students.

English to Speakers of Other Languages

Contact Margo Sampson, Languages, Literatures, and Linguistics, 330 H.B. Crouse, 315-443-9484.
Faculty L. Lisnyczyj, R. Lally, M. Patulski, M. Sampson

Syracuse University offers a program in English to speakers of other languages (ESOL, ESL) for any student whose native language is not English. Based on the results of the English Language Assessment Exam (ELAE), students are recommended for courses at the intermediate or advanced level. At the intermediate level, the program integrates the four skills of speaking, listening, reading, and writing. At the advanced level, the program focuses on composition, reading and research paper writing. For undergraduate students these courses may substitute for courses in the Writing Program.

First Year Forum

Contact Marie O'Leary, Coordinator; 441 Hall of Languages, 315-443-1011.

The First Year Forum is a one-credit course required of all new, first-year students in the college and aids with the transition from secondary school to college life, as well as deepens students' first-year intellectual experiences by providing a personal and less academically-specialized encounter with a faculty member. Each forum section consists of approximately 15 students, is led by a regular faculty member, and meets once a week for 8 to 9 weeks in the fall semester to share ideas, experiences and concerns, and topics of general interest. A focal point of the forum is the Milton First Year Lecture, which brings a nationally prominent speaker to campus to address the first-year students.

Renée Crown University Honors Program

306 Bowne Hall, 315-443-2759.

The Renée Crown University Honors Program is a selective, demanding, and rewarding program for outstanding students who seek intense intellectual challenge and are prepared to invest the extra effort required to meet that challenge.

It is marked by four distinguishing characteristics:

- heightened expectations;
- participation in a vibrant and active community of learners;
- intensity of intellectual experience;
- and special intellectual opportunities and responsibilities.

The program is open to qualified students from all undergraduate majors at Syracuse University. Its requirements, supplemental to those of their majors, stipulate that they demonstrate the attributes of depth, breadth, command of language, global awareness, civic engagement, and collaborative capacity.

Solving Program

Contact: Office of Curriculum, Instruction and Programs, 441 Hall of Languages, 443- 1011

The Soling Program is an all-University program whose purpose is to foster creative and collaborative work across academic boundaries. The program focuses on problem-solving, experiential learning, and originality. Students often work as multidisciplinary teams to explore solutions to specific, real-world problems posed by the University or the community. Students from different colleges typically work on projects with broader applications than usually found in academic courses.

Undergraduate Research Program

Kandice L. Salomone, Director
329 Hall of Languages, 315-443-9396
ilearn.syr.edu

The Undergraduate Research Program (URP), housed in the College of Arts and Sciences but open to qualified participants from other colleges, exists to provide non-classroom, credit-bearing educational opportunities to undergraduate students. Interested qualified students work closely with faculty members in faculty-generated research projects, or other projects representing the faculty member's professional and academic interests. The program features the apprenticeship model, and students gain firsthand experience in creative and investigative academic processes, participate in alternate learning environments, translate theory into practice, explore the cutting edges of particular disciplines, develop closer working relationships with faculty members, and enhance their own career and educational credentials.

FACULTY PARTICIPATION

The program offers faculty members a chance to extend and expand the character of their teaching in the undergraduate context, to work closely with self-selecting, highly motivated students, to attract excellent students to continued study in their particular field of study, and to open both internal and external funding possibilities by way of undergraduate involvement in their work. Faculty projects open to this involvement are invited and listed on a semester-by-semester basis, although individual projects may extend beyond a semester in length or be repeated or relisted as appropriate. The character and requirements of these projects, as well as the number of credits involved, vary greatly, since they come from across the disciplines of the College of Arts and Sciences, and sometimes from other colleges as well. The common criterion for all, however, is appropriateness to an educational credit-bearing experience for qualified undergraduate students.

Syracuse University Abroad

Executive Director Jon Booth, 106 Walnut Avenue, 315-443-3471; suabroad.syr.edu.

Study abroad is available with the College of Arts and Sciences. Syracuse University Abroad (SU Abroad) offers students the opportunity to study in a foreign country for a full year, a semester, or a summer session without interrupting a normal degree program or requiring prior knowledge of a foreign language. All programs offer fully accredited Syracuse University courses. Most programs are open to qualified students regardless of the major, and past participants have come from all the colleges and schools within the University, as well as from other campuses.

Academic Offerings

African American Studies Major

Department Chair: tba
200 Sims Hall V,
315-443-4302

Faculty Joan Bryant, Horace Campbell, Linda Carty, David Kwame Dixon, Kishi Animashaun Ducre, Janis A. Mayes, Micere Githae Mugo, Herbert Ruffin, S.N. Sangmpam, Renate Simson, Kheli R. Willetts

This interdisciplinary department offers the opportunity for study, research, and community involvement in African American Studies and enables students to explore cultural, literary, historical, socioeconomic and other issues affecting African Americans as well as the link with continental Africa and the Caribbean areas. The department provides a major, leading to a B.A. degree, and a minor, both with two sub-areas of specialization, one in the social sciences and one in the humanities. Students seeking a B.A. degree in African American Studies must successfully complete AAS/ANT 112 and either AAS 231 or AAS 232 before formal admission to the major.

MAJOR REQUIREMENTS

Prerequisites (6 credits)

All students must successfully complete two of the following courses before formal admission to the program.

- AAS/ANT 112 Introduction to African American Studies in the Social Sciences and either
- AAS 231 African American Literature to 1900: An introduction, or
- AAS 232 African American Literature: 20th Century

Major Courses (24 credits)

At least 18 of the 24 credits required for the major in African American Studies will be in courses numbered above 299. Six of the 24 credits may be chosen from AAS 202, 233, 234, 235, and 241. Six credits must be taken in the AAS core:

- AAS/HST 332 African American History, or

- AAS/HST 333 African American History and
- AAS 525 Research Methods in African American Studies

Students must also complete six credits in an area of specialization:

Humanities Track

Choose one:

- AAS 331 The African American Novel: 20th Century
- AAS 433 The Harlem Renaissance: Literature and Ideology
- AAS 305 African Orature

Choose one:

- AAS 345/REL 345 African American Religious History, or
- AAS 361 Art of the Black World

Social Sciences Track

- AAS 470 Internship in African American Studies

and one of the following:

- AAS/PSC 306 African American Politics
- AAS/PSC 341 Politics of Africa
- AAS/SOC 353 Sociology of the Black Experience

Twelve credits may be taken in additional advanced courses in African American studies chosen in consultation with the major advisor.

Humanities Track

- AAS 300/400/500 Selected Topics in African American Studies
- AAS 302 Contemporary African American Theater
- AAS 303 Black Women Writers
- AAS 304 Workshop in African American Theater
- AAS 305 African Orature
- AAS 307 African Women Writers
- AAS 310 Elements of Production
- AAS 312 Pan Africanism
- AAS 327 A History of Southern Africa
- AAS 331 The African American Novel: 20th Century
- AAS/HST 332 African American History Before 1865
- AAS/HST 333 African American History After 1865
- AAS 338 Creative Writing Workshop
- AAS/REL 345 African American Religious History
- AAS 361 Art of the Black World
- AAS 367 Protest Movements and African American Artists: 19th and 20th Centuries
- AAS/HST 402 Slavery and Abolition
- AAS/WGS 403 African/Caribbean Women Writers
- AAS 408 Masters of American Black Music
- AAS 409 History of Jazz 1940-Present
- AAS 433 The Harlem Renaissance: Literature and Ideology
- AAS/HST 434 Underground Railroad
- AAS 465 The Image of Blacks in Art and Film
- AAS 470 Internship in African American Studies
- AAS 490/290 Independent Study
- AAS 501 African American Sociological Practice
- AAS/WGS 512 African American Women's History
- AAS/WGS 513 Toni Morrison: Black Book Seminar
- AAS 540 African American Sociological Practice
- AAS/REL 543 Religious Cultures of the American South

Social Sciences Track

- AAS 300/400/500 Selected Topics in African American Studies
- AAS 305 African Orature
- AAS/PSC 306 African American Politics
- AAS 307 African Women Writers
- AAS 312 Pan Africanism
- AAS/HST 326 Africa Since 1800
- AAS/PSC 341 Politics of Africa
- AAS/REL 345 African American Religious History
- AAS/PSC 346 Comparative Third World Politics
- AAS/SOC 353 Sociology of the Black Experience
- AAS/PSC 364 African International Relations
- AAS/PSC 365 International Political Economy of the Third World
- AAS 380/480/580 International Courses
- AAS 390/490/590 Independent Study
- AAS/HST 402 Slavery and Abolition

- AAS 410 Seminar on Social Change
- AAS 416 Race, Crime, and Punishment
- AAS/SOC/WGS 427/627 New York City: Black Women Domestic Workers
- AAS/HST 434 Underground Railroad
- AAS/SOC/WGS 445/645 The Caribbean: Sex Workers, Transnational Capital, and Tourism
- AAS 470 Internship in African American Studies
- AAS 501 African American Sociological Practice, 1900-1945
- AAS/HST 510 Studies in African American History
- AAS 540 Seminar in African American Studies

STUDY ABROAD

Syracuse University Abroad offers Syracuse University credit bearing study options for students of African American studies in locations that include Tanzania, Kenya, Ghana, and Egypt. Two summer programs are also available. They are Entrepreneurship and Empowerment in South Africa and Paris Noir/Black Paris: Literature, Art, and Contemporary Life in Diaspora.

African American Studies Minor

Chair, TBA
200 Sims Hall
315-443-4302

This interdisciplinary department offers the opportunity for study, research, and community involvement in African American Studies and enables students to explore cultural, literary, historical, socioeconomic and other issues affecting African Americans as well as the link with continental Africa and the Caribbean areas.

To complete a minor in African American Studies, students take 18 credits, of which 12 must be in courses numbered above 299. Six credits must be taken in the introductory prerequisites.

Introductory Prerequisites (6 credits)

Required:

AAS/ANT 112 Introduction to African American Studies in Social Sciences and

Choose 3 credits from:

- AAS 231 African American Literature to 1900: An Introduction or
- AAS 232 African American Literature: 20th Century African American History (3 credits)
- AAS/HST 332 African American History, or
- AAS/HST 333 African American History

Minor Credits (9 credits)

Students must choose three subfield specialization courses from one of the two tracks below:

Humanities Track

- AAS 300/400/500 Selected Topics in African American Studies
- AAS 302 Contemporary African American Theater
- AAS 303 Black Women Writers
- AAS 304 Workshop in African American Theater
- AAS 305 African Orature
- AAS 307 African Women Writers
- AAS 310 Elements of Production
- AAS 327 History of Southern Africa
- AAS 331 The African American Novel: 20th Century
- AAS/HST 332 African American History Before 1865
- AAS/HST 333 African American History After 1865
- AAS 338 Creative Writing Workshop
- AAS 345/REL 345 African American Religious History
- AAS 361 Art of the Black World
- AAS 367 Protest Movements and African American Artists: 19th and 20th Centuries
- AAS 380/480/580 International Courses
- AAS 390/490/590 Independent Study
- AAS/HST 402 Slavery and Abolition
- AAS/WGS 403 African and Caribbean Women Writers
- AAS 408 Masters of American Black Music
- AAS 409 History of Jazz 1940-Present
- AAS 433 The Harlem Renaissance: Literature and Ideology
- AAS 465 The Image of Blacks in Art and Film
- AAS 470 Internship in African American Studies
- AAS 500 Seminar in African American Studies*
- AAS/HST 510 Studies in African American History
- AAS/WGS 512 African American Women's History
- AAS/WGS 513 Toni Morrison: Black Book Seminar
- AAS 540 Seminar in African American Studies*
- AAS/REL 543 Religion, Race, and the Solid South

Social Sciences Track

- AAS 300/400/500 Selected Topics in African American Studies
- AAS 305 African Orature
- AAS/PSC 306 African American Politics
- AAS 307 African Women Writers
- AAS 312 Pan Africanism
- AAS/HST 325 Africa to 1800
- AAS/HST 326 Africa Since 1800
- AAS/HST 332 African American History Before 1865
- AAS/HST 333 African American History After 1865
- AAS/PSC 341 African Politics
- AAS/REL 345 African American Religious History
- AAS/PSC 346 Comparative Third World Politics
- AAS 352 Research in the African American Community
- AAS/SOC 353 Sociology of the Black Experience
- AAS/PSC 364 African International Relations
- AAS/PSC 365 International Political Economy of the Third World
- AAS 367 Protest Movements and African American Artists
- AAS 380/480/580 International Courses
- AAS 390/490/590 Independent Study
- AAS/HST 402 Slavery and Abolition
- AAS/SOC 410 Seminar on Social Change
- AAS/SOC 416 Race, Crime, and Punishment
- AAS/SOC/WGS 427/627 New York City: Black Women Domestic Workers
- AAS 433 The Harlem Renaissance: Literature and Ideology
- AAS/HST 434 Underground Railroad
- AAS/SOC/WGS 445/645 The Caribbean: Sex Workers, Transnational Capital and Tourism
- AAS 470 Internship in African American Studies
- AAS 500 Seminar in African American Studies*
- AAS 501 African American Social Practice, 1900-1945
- AAS/HST 510 Studies in African American History
- AAS 525 Research Methods in African American Studies
- AAS 540 Seminar in African American Studies

*These courses may be counted toward the minor requirement only when the content of the course is within the subfield specialization.

African American Studies Secondary Teacher Preparation Program

Combined Bachelor's/Master's Degrees in African American Studies Secondary Teacher Preparation

School of Education contact: Marie Sarno, Teaching and Leadership Programs, 138 Huntington Hall. mrsarno@syr.edu

This combined degree option, offered by the College of Arts and Sciences and the School of Education meets the academic requirements for a New York Teaching certification for grades 7-12 in social studies. It is an alternative to the existing undergraduate Arts and Sciences/Education dual programs in these areas, and an option that often takes less time and fewer credits than earning the entire master's degree in education after completion of a general Arts and Sciences degree.

The combined bachelor's/master's teacher preparation programs were designed to meet the needs of Arts and Sciences undergraduates who, because of a later decision to become a teacher, would need to add a semester or more to their undergraduate study to complete the existing undergraduate Arts and Sciences/Education program. It also serves those who want or need more flexibility in their undergraduate program than the dual undergraduate degree allows.

Both the Arts and Sciences undergraduate degree with a major related to the subject to be taught, and the School of Education master's degree are conferred at the same time, after all requirements are met – typically at the end of 5 years. Students begin taking education courses as undergraduates, including some in the fourth year that are taken for graduate credit, and apply to become graduate students for their last two semesters. Some summer study (not necessarily at SU) may be required.

The combined program has a two-stage admission process. The first stage involves meeting with the School of Education contact as early as possible to develop a plan, and, if a decision to pursue the program is made, completing a form signed by Education and a new declaration of program of study form in Arts and Science to declare the Arts and Sciences program with “Teacher Preparation/5 year” appended to the title African American Studies instead of African American Studies. The second admission stage involves an application to graduate school. Each admission stage requires a 3.0 cumulative GPA and a 3.0 GPA in the courses from the subject to be taught. The second stage also requires successful performance in the undergraduate education courses.

The choices of Arts and Sciences majors, and the course requirements for the Arts and Sciences major, the Liberal Arts Core, and other requirements related to the major are the same for these combined programs as those for students completing the dual enrollment undergraduate Arts and Sciences/Education program. These details about specific adjustments necessary to the Liberal Arts Core and to Arts and Sciences major may be found in the section describing Dual Arts and Sciences/ Education Programs.

Because of the specific course requirements and sequencing of courses, it is important that students interested in one of these programs meet with the Education contact as soon as possible to develop a plan. EDU 204, the first education course, must be taken no later than spring of the junior year.

Anthropology Major

Department Chair: Christopher DeCourse

209 Maxwell Hall
315-443-2200

Faculty Douglas V. Armstrong, Hans C. Buechler, John S. Burdick, A.H. Peter Castro, Christopher R. DeCorse, Azra Hromadzic, William F. Kelleher Jr., Shannon A. Novak, Deborah Pellow, Robert A. Rubinstein, Maureen Trudelle Schwarz, Theresa A. Singleton, John Marshall Townsend, Cecilia Van Hollen, Susan S. Wadley

The Anthropology department in the Maxwell School of Citizenship and Public Affairs at Syracuse University is oriented primarily toward socio-cultural anthropology, historical archaeology, and anthropological praxis (including applied anthropology and the study and implementation of social movements).

Anthropology is the systematic study of humankind, globally and temporally. It stands apart from other disciplines as its classic subfields—biological anthropology, archaeology, linguistic anthropology, cultural anthropology (or ethnology)—bridge the natural sciences, social sciences, and the humanities. A fifth subfield, applied anthropology, uses anthropological skills and knowledge to address contemporary social issues. The discipline provides grounding in an integrated, holistic, and comparative understanding of the biological and cultural aspects of the human experience.

At Syracuse, we are particularly concerned with culture change, symbolic systems, and issues of power, both through the historical archaeological record and in modern communities. We believe that an anthropological perspective has much to offer students seeking a liberal arts education, especially in a country increasingly confronting issues of multiculturalism and globalization. Our program, through its individual courses and its overall curriculum, trains students to be able to:

- understand and describe human diversity through the study of core anthropological knowledge (key concepts, theories, data) and methods (from one or more subfields);
- think critically (including the capacity to evaluate competing ideas and to generalize from specific data);
- research, write, and present effectively;
- use anthropological ideas and knowledge to analyze real-world problems;
- understand ethical principles and professionalism in anthropology.

MAJOR REQUIREMENTS

The program, leading to a B.A. in anthropology, requires 33 credits in anthropology courses. Of these, 18 credits are taken in required courses and 15 are electives.

Required Courses (18 credits)

- Introductory Courses: Three courses (9 credits)

Cultural Anthropology

- ANT 111 Introduction to Cultural Anthropology

Physical/Biological Anthropology

- ANT 131 Introduction to Biological Anthropology

Archaeology - either

- ANT 141 Introduction to Archaeology or
- ANT/HST 145 Introduction to Historical Archaeology

Area Focus and Regional Perspectives on Culture: One course (3 credits):

Completion of at least one course from the following list: ANT 318, 322, 323, 324, 325, 326, 429, 440, 446, 447, and selected 400 and area courses by petition.

Anthropological Methods: One of the following courses (3 credits):

- ANT 433 Human Skeletal Anatomy
- ANT 442 Methods in Archaeology
- ANT 443 Field Methods in Archaeology
- ANT 444 Laboratory Analysis in Archaeology
- ANT 481 Ethnographic Techniques
- ANT 482 Life Histories and Narratives
- ANT 484 Social Movement Research Methods

Anthropological Theory: One course (3 credits):

- ANT 311 Anthropological Theory

Total Required Credits: 33

Electives (15 credits)

The student majoring in anthropology is free to enroll in any course offered by the Department of Anthropology as long as the prerequisites for that course are satisfied. All students are encouraged to enroll in elective courses that are of interest to them. At least 12 of the 15 elective credits required must be at the 300 level and above.

Anthropology Minor

Christopher DeCorse, Chair
209 Maxwell Hall
315-443-2200

The anthropology department in the Maxwell School of Citizenship and Public Affairs at Syracuse University is oriented primarily toward socio-cultural anthropology, historical archaeology, and anthropological praxis (including applied anthropology and the study and implementation of social movements).

Anthropology is the systematic study of humankind, globally and temporally. It stands apart from other disciplines as its classic subfields—biological anthropology, archaeology, linguistic anthropology, cultural anthropology (or ethnology)—bridge the natural sciences, social sciences, and the humanities. A fifth subfield, applied anthropology, uses anthropological skills and knowledge to address contemporary social issues. The discipline provides grounding in an integrated, holistic, and comparative understanding of the biological and cultural aspects of the human experience.

At Syracuse, we are particularly concerned with culture change, symbolic systems, and issues of power, both through the historical archaeological record and in modern communities. We believe that an anthropological perspective has much to offer students seeking a liberal arts education, especially in a country increasingly confronting issues of multiculturalism and globalization. Our program, through its individual courses and its overall curriculum, trains students to be able to:

- understand and describe human diversity through the study of core anthropological knowledge (key concepts, theories, data) and methods (from one or more subfields);
- think critically (including the capacity to evaluate competing ideas and to generalize from specific data);
- research, write, and present effectively;
- use anthropological ideas and knowledge to analyze real-world problems;
- understand ethical principles and professionalism in anthropology.

The minor in anthropology is designed to encourage students to pursue breadth in areas which complement their major. With the assistance of their faculty advisors, students can design a minor reflecting their interest in any of the subfields of anthropology: socio/cultural, biological/physical, archaeological, applied, and policy-related studies.

To complete the minor in anthropology, students take 18 credits. No more than 6 credits at the 100-200 level can count toward the minor.

Examples of possible courses leading to a minor in anthropology could include (but are in no way limited to) the following:

- Applied and Policy Related: ANT 111, 356, 414, 417, 453.
- Archaeology: ANT 141, 145, 348, 440, 443, 445.
- Social/Cultural: ANT 111, 185, 325, 373, 376, 472.
- Biological/Physical: ANT 131, 331, 431, 432, 433, 465.

Anthropology Secondary Teacher Preparation Program

Combined Bachelor's/Master's Degrees in Anthropology Secondary Teacher Preparation Programs
School of Education contact: Marie Sarno, Teaching and Leadership Programs, 138 Huntington Hall. mrsarno@syr.edu

This combined degree option, offered by the College of Arts and Sciences and the School of Education meets the academic requirements for a New York Teaching certification for grades 7-12 in social studies. It is an alternative to the existing undergraduate Arts and Sciences/Education dual programs in these areas, and an option that often takes less time and fewer credits than earning the entire master's degree in education after completion of a general Arts and Sciences degree.

The combined bachelor's/master's teacher preparation programs were designed to meet the needs of Arts and Sciences undergraduates who, because of a later decision to become a teacher, would need to add a semester or more to their undergraduate study to complete the existing undergraduate Arts and Sciences/Education program. It also serves those who want or need more flexibility in their undergraduate program than the dual undergraduate degree allows.

Both the Arts and Sciences undergraduate degree with a major related to the subject to be taught, and the School of Education master's degree are conferred at the same time, after all requirements are met – typically at the end of 5 years. Students begin taking education courses as undergraduates, including some in the fourth year that are taken for graduate credit, and apply to become graduate students for their last two semesters. Some summer study (not necessarily at SU) may be required.

The combined program has a two-stage admission process. The first stage involves meeting with the School of Education contact as early as possible to develop a plan, and, if a decision to pursue the program is made, completing a form signed by Education and a new declaration of program of study form in Arts and Science to declare the Arts and Sciences program with “Teacher Preparation/5 year” appended to the title Anthropology. The second admission stage involves an application to graduate school. Each admission stage requires a 3.0 cumulative GPA and a 3.0 GPA in the courses from the subject to be taught. The second stage also requires successful performance in the undergraduate education courses.

The choices of Arts and Sciences majors, and the course requirements for the Arts and Sciences major, the Liberal Arts Core, and other requirements related to the major are the same for these combined programs as those for students completing the dual enrollment undergraduate Arts and Sciences/Education program. These details about specific adjustments necessary to the Liberal Arts Core and to Arts and Sciences major may be found in the section describing Dual Arts and Sciences/ Education Programs.

Because of the specific course requirements and sequencing of courses, it is important that students interested in one of these programs meet with the Education contact as soon as possible to develop a plan. EDU 204, the first education course, must be taken no later than spring of the junior year.

Applied Statistics Minor

Applied Statistics
Pinyuen Chen, Advisor
215 Carnegie Library
315-443-1577

Faculty Chung Chen, Pinyuen Chen, Peng Gao, Susan H. Gensemer, Vernon L. Greene, Christine L. Himes, Chihwa (Duke) Kao, Hyune-Ju Kim, Yingyi Ma, Jan Ivar Ondrich, Stephanie Ortigue, Jeffrey M. Stonecash, Raja Velu, Janet Wilmoth, Douglas A. Wolf, Larry L. Wolf, Yildiray Yildirim

To complete this minor, students take at least 18 credits from the distribution below. Courses are selected in consultation with a member of the Program Committee. With permission from the Program Committee, students receive credits toward the minor for other courses that have sufficient statistics content.

Basic Statistics (3 credits)

- APM 395 Probability and Statistics for Engineering*
- CIS 321 Introduction to Probability and Statistics
- ECN 521 Economic Statistics
- MAS 261 Introductory Statistics for Management
- MAT 122 Probability and Statistics for the Liberal Arts
- MAT 221 Elementary Probability and Statistics I
- MAT 521 Introduction to Probability and Statistics
- MFE 326 Probability and Statistics Methods for Engineers
- STT 101 Introduction to Statistics

Regression Analysis (3 credits)

- ECN 522 Econometrics Methods
- MAS 466 Data Mining for Managers

Additional Coursework (12 credits)

- APM 510 Statistical Analysis*
- ECS 525 Probability for Engineers I
- ECS 526 Statistics for Engineers
- GEO 386 Quantitative Geographical Analysis
- MAT 122 Probability and Statistics for the Liberal Arts II
- MAT 222 Elementary Probability and Statistics II
- MAT 525 Mathematical Statistics
- MAT 526 Probability
- MAS 362 Decision Tools for Management
- MAS 477 Time-Series Analysis and Forecasting
- MAX 201 Quantitative Methods for the Social Sciences
- PSY 252 Statistical Methods II
- SOC 318 Introduction to Research

*Courses with an APM prefix are offered by the SUNY College of Environmental Science and Forestry.

Art And Music Histories Minor

Minor in Art and Music Histories

Amanda Eubanks Winkler, Chair
308 Bowne Hall
315-443-4185

Wayne Franits, Undergraduate Director
Suite 308 Bowne Hall
315-443-4184

Faculty Carol Babiracki, Theo Cateforis, Laurinda Dixon, Rodney Foster, Wayne Franits, Robert A. Hatfield, Jeehee Hong, Richard Ingersoll, Bette Kahler, Matilde M. Mateo, Alick McLean, Stephen Meyer, Jonathan Nelson, Gary M. Radke, Romita Ray, Sascha Scott, Eileen Stempel, Amanda Winkler

The minor in Art and Music Histories requires 18 credits of coursework. 12 of these credits must be earned in upper-level HOA or HOM courses (300 level and above) drawn from any combination of the department's constitutive disciplines (histories of art, music, and architecture). Up to 6 credits of coursework may be earned in 200-level HOA or HOM courses. Students may also petition to have up to 6 credits of appropriate courses in these disciplines taken outside the department count toward the minor.

Art History Major

Amanda Eubanks Winkler, Chair
308 Bowne Hall
315-443-4185

Wayne Franits, Undergraduate Advisor
Suite 308 Bowne Hall
315-443-4184

Faculty Laurinda Dixon, Wayne Franits, Robert A. Hatfield, Jeehee Hong, Richard Ingersoll, Matilde M. Mateo, Alick McLean, Jonathan Nelson, Gary M. Radke, Romita Ray, Sascha Scott

The Department of Art and Music Histories was one of the first in the country dedicated to the study of the history of art and music from an interdisciplinary perspective. The department offers courses in most major periods of the history of visual and musical arts from ancient to postmodern times. The research and teaching specialties of the department's faculty include 19th- and 20th-century music, the history of opera, ethnomusicology, medieval stained glass, art and medicine in the early modern period, Italian Renaissance art, 17th-century Dutch painting, Symbolism, 19th- and 20th-century European art, the history of photography, and American art. In view of the Department of Art and Music Histories interdisciplinary approach, courses examine the histories of art and music within the cultural, sociopolitical, economic, and religious contexts of the societies that created them.

Studies in the history of architecture are offered in association with the faculty of the School of Architecture (see program description under "History of Architecture" in this section of the catalog). Cooperative programs with the College of Visual and Performing Arts, the S.I. Newhouse School of Public Communications, and other divisions of the University allow for the inclusion of courses in studio art, music theory, performance and composition, and public communications.

Students who major in one of the department's disciplines are strongly encouraged to take a foreign language and to study abroad.

Major Requirements:

The major in art history also requires 30 credits numbered above 299. However, all courses above 299 must be art history courses. Students in this more specialized major may include only 6 credits of art studio work at any level in the required 30 credits. Students may petition to have up to 9 credits of appropriate courses in art history taken outside the department (non-HOA courses) count toward the art history major.

Additional requirements for the art history major follow:

Distribution Requirement

Course offerings in art history are divided into five broad categories: ancient/medieval; Northern/Italian Renaissance; Baroque/18th-century European; modern/American; and non-Western. Art-history majors are required to take at least one course in four of these five categories.

500-level Course Requirement

500-level courses are customarily open to advanced undergraduate majors as well as graduate students in the M.A. program in art history. Such courses offer more detailed study of particular fields within art history than those numbered at the 300 and 400 levels. Art history majors are required to take at least one course at the 500 level.

Senior Seminar Requirement

During the fall semester of their senior year, art history majors are required to successfully complete a senior seminar. This seminar will serve to explore the practical aspects of the discipline, paying particular attention to potential careers within it.

Art History Minor

Amanda Eubanks Winkler, Chair
308 Bowne Hall
315-443-4185

Wayne Franits
308 Bowne Hall
315-443-4184

Faculty Laurinda Dixon, Wayne Franits, Robert A. Hatfield, Jeehee Hong, Richard Ingersoll, Matilde M. Mateo, Alick McLean, Jonathan Nelson, Gary M. Radke, Romita Ray, Sascha Scott

The Department of Art and Music Histories was one of the first in the country dedicated to the study of the history of art and music from an interdisciplinary perspective. The department offers courses in most major periods of the history of visual and musical arts from ancient to postmodern times. The research and teaching specialties of the department's faculty include 19th- and 20th-century music, the history of opera, ethnomusicology, medieval stained glass, art and medicine in the early modern period, Italian Renaissance art, 17th-century Dutch painting, symbolism, 19th- and 20th-century European art, the history of photography, and American art. In view of the Department of Art and Music Histories interdisciplinary approach, courses examine the histories of art and music within the cultural, sociopolitical, economic, and religious contexts of the societies that created them.

The minor in art history requires 18 credits of coursework. These courses must be upper-level FIA courses (300 level and above) in art history, drawn from the list of departmental offerings below. However, students may petition to have up to 6 credits of selected topics courses in art history (HOA 300 or HOA 400) count toward the minor. In addition, students may petition to have up to 6 credits of art history courses taken outside the department count toward the minor.

HOA 105/106 or HOA 276 are prerequisites but do not count toward the minor.

HOA 301 Origins of Western Art
HOA 303/ANT 422 Etruscans and Romans
HOA 304 Roman Art and Architecture
HOA 311 Italian Medieval Art

HOA 312 Romanesque Art
 HOA 313 Gothic Art
 HOA 340 Studies in Baroque Art*
 HOA 350 Art in 18th Century Europe
 HOA 365/FRE 439 Art in France from Impressionism to Surrealism*
 HOA 366 Nineteenth and Twentieth Century Italian Art*
 HOA 412 The Gothic Spell
 HOA 421 Early Renaissance Art
 HOA 422 High Renaissance Art and Mannerism
 HOA 423 Artistic Patronage of the Medici*
 HOA 425/ECS 441 Leonardo Artist and Engineer
 HOA 426 Michelangelo's Italy
 HOA 428 Research Problems in Italian Art
 HOA 430 Northern Renaissance Art: 15th Century
 HOA 431 Northern Renaissance Art: 16th Century
 HOA 440/WGS 449 Women in Art
 HOA 445 Baroque Art in Southern Europe
 HOA 446 Baroque Art in Northern Europe
 HOA 458 Art of Romanticism
 HOA 461 Early 20th Century (European) Art
 HOA 462 European Art Between the Wars
 HOA 463 Modernism and Postmodernism
 HOA 522 Botticelli*
 HOA 530 History of Printmaking
 HOA 540 Seventeenth-Century Dutch Painting
 HOA/HOM 541 Arts and Ideas in the 17th Century
 HOA 556 Problems in Art History
 HOA/HOM 560 Arts and Ideas in the 19th Century
 HOA/HOM 575 Arts and Ideas in Contemporary Culture
 HOA 576 Topics in American Art

(*Denotes courses taught abroad through SU Abroad.)

Arts And Sciences/Art

Contact: Prof. Gary Radke, Art and Music Histories
 Suite 308 Bowne Hall
 315-443-9198

To arrange a required portfolio review: Office of Recruitment, College of Visual and Performing Arts, 202 Crouse College, 315-443-2769.

Coordinator for College of Visual and Performing Arts: Sarah McCoubrey, Chair, Foundation Program, School of Art and Design, 102 Shaffer Art Building, 315-443-4613.

Art faculty: See "Faculty, College of Visual and Performing Arts, School of Art and Design"

The special options degree program in arts and sciences/art is designed for students who wish to include studio arts in conjunction with studies in humanities and/or sciences. The option permits any major in the College of Arts and Sciences to be joined with studio arts work. The degree awarded at the completion of undergraduate study is a B.A. in the arts and sciences major with the supplementary designation "and art." The degree is singly awarded by the College of Arts and Sciences.

REQUIREMENTS

Under no circumstances will students be permitted to enter this special program after they have completed the first semester of their sophomore year. A portfolio is required for admission into the program.

Arts and Sciences Requirements

At least 90 credits must be completed in the College of Arts and Sciences (including the arts and sciences core, usually 60 credits). Students also complete an arts and sciences major (usually 30 credits) and 6 credits of upper-division art history.

School of Art and Design Requirements

The 30-credit option involves 15 credits of introductory design, drawing, and painting, followed by 15 elective credits in painting, drawing, fiber arts, ceramics, and/or sculpture.

Basic design	FND 115	FND 117	
Drawing (from FND 113, FND 114)			6
Painting (from PTG 203 PTG 204)			3
Studio arts electives			15

All FND (Foundation) course requirements (12 credits) must be completed within the first 3 semesters of enrollment in the program. Moreover, students must complete at least 9 credits of their 12-credit FND requirements BEFORE they will be allowed to enroll in upper-level courses.

There is no provision for advanced work in non-studio areas of the School of Art and Design, leading to degrees such as the B.F.A. or B.L.D.

Arts And Sciences/Music Major

Program contact: Stephen Meyer, Director of Undergraduate Studies for Music History and Culture, Department of Art and Music Histories, 308 Bowne Hall, 315-443-5034

Arts and Sciences faculty: See faculty listings under individual programs.

Music faculty: See "Faculty, College of Visual and Performing Arts, School of Music"

This special options degree program provides the opportunity to combine any degree in the College of Arts and Sciences with advanced studies in music performance or music composition—studies that will be taken primarily in the Setnor School of Music. To be admitted to the special options degree program, students in the College of Arts and Sciences apply through the Department of Art and Music Histories before the beginning of the sophomore year. Prospective students for the music performance and music composition degree options must meet admissions requirements administered by the Setnor School of Music.

The degree awarded after completing undergraduate studies is a B.A. in the arts and sciences major with the supplementary designation, “with advanced studies in music performance/composition” (depending on the particular degree option). The degree is singly awarded by the College of Arts and Sciences. Completion of the major does not result in any professional or artistic certification by the Setnor School of Music or the College of Visual and Performing Arts.

Lower-Division Requirements

Students in the special options degree program in arts and sciences/music are required to complete the Liberal Arts Core Curriculum of the College of Arts and Sciences in their first and sophomore years (normally 54-60 credits). In addition, students must fulfill the following requirements:

Music Skills (up to 6 credits required)

Students are required to demonstrate competency in basic musical skills, either by successfully completing HOM/MTC 125,126 or MTC 145,146 or by passing a competency examination. HOM 125,126 is followed in sequence by HOM/MTC 225,226. MTC 145,146 is followed by MTC 245,246 (see Advanced Studies). Students should note that certain upper-division courses in the Setnor School of Music require MTC 245,246 as a prerequisite.

Introduction to Music history in its social and cultural contexts (6 credits)

Students are required to successfully complete two courses from the following list:

- HOM 165 Understanding Music I
- HOM 166 Understanding Music II
- HOM 195 Performance Live
- HOM 266 European Music Before 1750
- HOM 267 European Music 1750-1945
- HOM 268 European and American Music Since 1945
- HOM 285 Introduction to World Music

Advanced Studies in Music and Upper-Division Requirements

At the upper-division level, students pursue an arts and sciences degree (normally 30 credits) along with advanced studies in music performance, music industry, or music composition (26-30 credits). Special options degree students begin their advanced studies by completing the following elements of the core curriculum in music:

MTC 245,246 Music Theory 6

Students should note that certain upper-division courses require MTC 245,246 as a prerequisite. Students who wish to take these courses should begin their music theory sequence with MTC 145,146.

MTC 147,148 or MTC 247,248 Ear Training 2 HOM 385 Structure and Meaning in World Music 3

Students will continue their advanced studies in music by earning 15-19 additional credits in either a music performance or music composition concentration. Other types of music concentrations are also possible with approval by the Setnor School of Music faculty and may be undertaken only under the supervision of a faculty advisor.

In addition to the requirements below, students must participate in a Syracuse University performing ensemble for at least 6 semesters.

Music Performance (17 credits)

Six semesters of private lessons in principal performance (1 credit each; 6 credits total).

Extended lessons (2 credits each) are optional and may be taken only with approval.

CTG 545 Basic Conducting 2

Three courses from the following

- MTC 545 Counterpoint 3
- MTC 546 Analysis of Contemporary Music 3
- HOM courses numbered above 299 3 each
- MHL courses numbered above 299 3 each

A performance of at least 10 minutes in the senior year either in Music Convocation or another appropriate venue.

Music Composition (17-19 credits)

Four semesters of composition

(1 credit each; 4 credits total)

HOM 268 European and American Music Since 1945 3

Four courses from the following:

- CTG 545 Basic Conducting 2
- MTC 535 Orchestration 3
- MTC 545 Counterpoint 3
- MTC 546 Analysis of Contemporary Music 3
- MTC 560 Electronic Music 3 (may be repeated once)

Asian/Asian American Studies Minor

Asian/Asian American Studies

Prema Kurien, Director

302 Maxwell Hall

pkurien@maxwell.syr.edu

315-443-2346

Faculty Carol Babiracki, Tej K. Bhatia, Wan-Yi Chen, Gareth J. Fisher, Ann Grodzins Gold, Jongwoo Han, George Kallander, Prema Kurien, Norman A. Kutcher, Amy Lutz, Yingyi Ma, Devashish Mitra, Mona Mittal, Alison Mountz, Iswari P. Pandey, Deborah Pellow, Romita Ray, Farhana Sultana, Junko Takeda, Susan S. Wadley, Joanne P. Waghorne, Hongying Wang

More than two thirds of the Asian American population is comprised of immigrants whose personal and migration histories, educational achievements and attitudes have been molded by their Asian heritages and who continue to maintain connections with their homelands. This program was developed out of an awareness that we cannot understand Asian Americans without understanding the histories and cultures of Asia and vice versa, that we cannot understand contemporary Asia without understanding how American politics, capital, religion, culture and Asian American diasporas have shaped countries in that continent.

The minor will consist of 18 credits, 12 of which must be in advanced 300- to 500 level coursework.

18 credits, 12 at the 300 or higher level

I. Required Courses (6 credits) :

- AAA 101 Introduction to Asian and Asian American Studies
- *SOC 300 (new course) Contemporary Asian Americans

II. One of these courses focusing on migration, ethnicity and/or race relations:

(lower division)

- ETS 184 Ethnicity and Literary Texts (relevant sections)
- SOC 248 Ethnic Inequalities and Intergroup Relations

(upper division)

- ANT 367 Gender in a Globalizing World (relevant sections)
- GEO 400 Geographies of Migration & Mobility
- PSC 369 Global Migration

III. At least one course focused on Asia from the following list:

(lower division)

- REL 165/SAS 165 Islam
- REL 185/SAS 185 Hinduism
- REL 186 Buddhism
- SAS 283 India's Religious Worlds

(upper division)

- ANT/SAS 324 Modern South Asian Cultures
- ECN 365 The World Economy
- *ETS 350 Reading Nation and Empire (relevant sections)
- HOA 391 Survey of Asian Art
- HOM 384/SAS 385: Music and Dance of India
- *HOA 400/ SAS 400 Modern and Contemporary South Asian Art
- HOM482 The Roots of Global Pop
- *GEO 300 Environment & Development in Global South
- HST 393 East Asia and the Socialist Experience
- HST 395 Modern Japan
- HST 397 Modern Korea
- *HST 300 Partition of India thru Films
- HST 320 Traditional China
- HST 329/ SAS 329 Making of Modern India
- HST 388 Vietnam: Movies and Memoirs
- PSC 335 Politics of East Asia
- REL 385 Religion in Chinese Society
- REL 465/ SAS 465 Gender, Politics and Islamic Societies
- SAS 384 Goddesses, Women and Power in Hinduism
- TRF 560 Bollywood and Beyond

- *WGS 400 Women, Gender, and Violence in a Transnational Context

IV. At least one additional course on Asian Americans

- ETS 315 (when offered on Asian Americans) Ethnic Literatures and Cultures
- REL 487 Global Hinduism

These courses are being developed and will be added when offered.

- Proposed Writing course on Asian American Rhetoric and Writing
- Proposed Political Science course on East Asia-US politics
- Proposed Sociology course on Education and Work in Asian America

V. One more course from parts III or IV or one course in an Asian language (Bengali, Chinese, Hindi, Japanese, Korean, Tamil, Urdu)

*New courses not yet regularized

Biochemistry

Contact:

James C. Dabrowiak: 2-016D Center for Science and Technology

315-443-4601: jcdabrow@syr.edu

Samuel H. Chan: 342 Life Sciences Complex

315-443-3182: shchan@syr.edu

Faculty John M. Belote, Philip N. Borer, Mark S. Braiman, Joseph Chaiken, Arindam Chakraborty, Samuel H.P. Chan, John D. Chisholm, Daniel Clark, Michael S. Cosgrove, James C. Dabrowiak, Robert P. Doyle, Thomas P. Fondy, Teresa Freedman, Anthony Garza, Jerry Goodisman, Bruce S. Hudson, James Kallmerten, Timothy M. Korter, Katharine Lewis, Yan-Yeung Luk, Eleanor Maine, Mathew M. Maye, Melissa Pepling, Ramesh Raina, Karin Ruhlandt, John M. Russell, Nancy I. Totah, Roy Welch, Jon Zubieta

Biochemistry is the study of the molecular basis of life. Lying at the interface between chemistry and biology, biochemistry is concerned with the structure and interaction of proteins, nucleic acids, and other biomolecules as related to their function in biological systems. As one of the most dynamic areas of science, biochemistry has led to improved medicines and diagnostic agents, new ways of controlling disease, and greater understanding of the chemical factors that control our general health and well-being.

The bachelor of science degree in biochemistry is appropriate for students pursuing advanced degrees in biochemistry, molecular biology, and biophysics, as well as in the biomedical fields and health professions.

Before declaring the biochemistry major, students must earn at least 30 credits in courses graded A-F at Syracuse, and earn at least a grade of C+ in CHE 275 and BIO 326 or 327.

Students with a score of 5 on the AP chemistry exam who complete CHE 275/276 during their first semester at SU, and who also take CHE 325/326 and CHE 474 at SU, are thereby exempt from the requirement to take CHE 106/107 and CHE 116/117 (or their honors equivalents) for the biochemistry B.S. degree. Note, however, that the resulting program may not include enough CHE courses to formally satisfy pre-med requirements of certain medical schools.

DISTINCTION IN BIOCHEMISTRY

The biochemistry B.S. program encourages all of its students to participate in research through its BCM 460 course. For students whose research culminates in a written thesis, it is possible to graduate with Distinction in Biochemistry if the following requirements are met.

First, the student must have a transcript showing an overall cumulative GPA of 3.4, and must also have a minimum cumulative GPA of 3.4 in all natural sciences and mathematics courses taken at S.U.

Second, the student must have taken a minimum of 6 credits of BCM 460.

Third, before completion of the final semester at Syracuse University, the student must make an oral presentation (either poster or platform) based on his/her research, at one of the following: (1) the Syracuse University biology department Undergraduate Research Conference in April; or (2) an external conference sponsored by an outside (non-S.U.) educational institution with its own accredited 4-year biochemistry degree program; or (3) an external conference sponsored by a nationally-recognized scientific society with a biochemistry component (e.g. ACS, FASEB, Biophysical Society). A symposium specifically designed for undergraduate researchers from multiple institutions and sponsored by a regional or local chapter of a national scientific society is understood to qualify as external, even if it is physically located at Syracuse University.

Fourth, the written thesis must be judged to be of high quality by a committee of readers selected from among the biochemistry program faculty listed in the Syracuse University Course Catalog. The student is responsible for selecting potential readers and obtaining their consent to serve. The committee of readers should include the research supervisor, but in any case must include at least one member whose primary appointment is in Syracuse University's biology department, and one member whose primary appointment is in Syracuse University's chemistry department. For further information, contact the biochemistry major advisors.

B.S. DEGREE REQUIREMENTS

Core Courses (48-60 credits)

- BIO 121, or Advanced Placement Biology Credit
- BIO 305 Integrated Biology Lab
- CHE 106/107 or 109/129 General Chemistry I/Lab
- CHE 116/117 or 119/139 General Chemistry II/Lab
- CHE 275/276 Organic Chemistry I/Lab
- CHE 325/326 Organic Chemistry II/Lab
- MAT 285 or 295 Calculus I
- MAT 286 or 296 Calculus II
- PHY 211/221 General Physics I/Lab

- PHY 212/222 General Physics II/Lab
- BIO 326 Genetics and Cell Biology I
- BIO 327 Genetics and Cell Biology II
- CHE 474 Structural and Physical Biochemistry
- BIO 475 or CHE/BCM 477 Biochemistry Lab or Preparation and Analysis of Proteins and Nucleic Acids Lab
- BIO 575 Biochemistry I
- BIO 576 Biochemistry II

Elective Courses (At least 12 credits, including at least one instructional lab indicated with an asterisk)

- CHE 335 Chemical and Biochemical Analysis Lab*
- CHE 346 Physical Chemistry I
- CHE 356 Physical Chemistry II
- BIO 409 Microbiology*
- CHE 412 Metals in Medicine
- BIO 422 Bioinformatics for Life Sciences w/lab*
- BIO 425 Cell and Development Biology Lab*
- BCM 430 Journal Club in Molecular Pharmacology and Structural Biology
- BIO 447 Immunobiology
- BCM 460 Research in Biochemistry
- BIO 462 Molecular Genetics
- BIO 463 Molecular Biotechnology Lab*
- BIO 464 Applied Biotechnology Lab*
- BIO 465 Molecular Biology Lab
- BCM 484 Biomolecular Modeling w/lab*
- BIO 501 Biology of Cancer
- BIO 503 Developmental Biology
- CHE 546 Molecular Spectroscopy and Structure
- CHE 575 Organic Spectroscopy

If both BIO 475 and CHE/BCM 477 are taken, one may count toward the 12-credit elective requirement, thereby also meeting the instructional lab requirement.

BCM 460 counts once (up to 3 credits) toward elective requirement, but does not count as an instructional lab course.

RECOMMENDED ELECTIVES

Preparation for Graduate School in a Department of Biology, Biochemistry, or Molecular Biology

- BIO 409 Microbiology
- CHE 412 Metals in Medicine
- BCM 430 Journal Club in Molecular Pharmacology and Structural Biology
- BIO 447 Immunobiology
- BCM 460 Research in Biochemistry*
- BIO 462 Molecular Genetics
- BIO 463 Molecular Biotechnology Lab*
- BIO 464 Applied Biotechnology Lab*
- BIO 465 Molecular Biology Lab
- BCM 484 Biomolecular Modeling
- BIO 501 Biology of Cancer
- BIO 503 Developmental Biology

Preparation for Graduate School in a Department of Chemistry

- CHE 335 Chemical and Biochemical Analysis Lab
- CHE 346 Physical Chemistry I
- CHE 356 Physical Chemistry II
- CHE 412 Metals in Medicine
- BCM 430 Journal Club in Molecular Pharmacology and Structural Biology
- BCM 460 Research in Biochemistry*
- BIO 465 Molecular Biology Lab
- BCM 484 Biomolecular Modeling
- CHE 546 Molecular Spectroscopy and Structure
- CHE 575 Organic Spectroscopy

Preparation for Health Professions (M.D., D.D.S., D.V.M.)

- BIO 409 Microbiology
- CHE 412 Metals in Medicine
- BIO 447 Immunobiology
- BCM 460 Research in Biochemistry
- BIO 462 Molecular Genetics
- BIO 465 Molecular Biology Lab
- BIO 501 Biology of Cancer
- BIO 503 Developmental Biology

Preparation for Technical Careers in Pharmaceutical or Biotechnical Industry

- CHE 335 Chemical and Biochemical Analysis Lab
- BIO 409 Microbiology
- BCM 430 Journal Club in Molecular Pharmacology and Structural Biology

- BIO 447 Immunobiology
- BCM 460 Research in Biochemistry
- BIO 462 Molecular Genetics
- BIO 463 Molecular Biotechnology Lab*
- BIO 464 Applied Biotechnology Lab*
- BIO 465 Molecular Biology Lab
- BCM 484 Biomolecular Modeling
- BIO 501 Biology of Cancer
- BIO 503 Developmental Biology
- CHE 575 Organic Spectroscopy

Biology Major

Contact: Undergraduate Programs Secretary Deborah Herholtz
114 Life Sciences Complex
315-443-9139.

Faculty R. Craig Albertson, David M. Althoff, John M. Belote, Samuel H.P. Chan, Michael S. Cosgrove, Scott E. Erdman, Thomas P. Fondy, Douglas A. Frank, Jason D. Fridley, Anthony Garza, Marilyn S. Kerr, Katharine Lewis, Eleanor Maine, Melissa Pepling, Scott Pitnick, Ramesh Raina, Surabhi Raina, Mark Ritchie, David Rivers, John M. Russell, Kari A. Se Graves, W. Thomas Starmer, Melody Troeger Sweet, Joseph T. Tupper, J. Albert L. Uy, Roy Welch, Jason R. Wiles

Students majoring in biology establish a general background in the discipline through a series of first-year/sophomore-level core courses that preview all of biology. This introductory program is followed by courses that allow the student to focus on more advanced material.

The major in biology leads to either the B.A. or the B.S. degree. The B.S. degree is intended for students interested in graduate study in biological science or the health professions (medicine, dentistry, or veterinary medicine). In addition to biology requirements, students pursuing the B.S. degree in biology take general and organic chemistry, and mathematics through calculus. Students are also encouraged to gain practical experience and academic credit through the University Honors Program, the Community Internship Program, or departmental research. Students may also receive a B.S. in biology with emphasis on environmental sciences.

The B.A. degree is intended for students who wish to pursue technical or science-related careers that do not require a graduate or professional degree, or careers outside of biology in which a background in science may be useful, such as science writing, business, or law. Although the biology course requirements for the B.A. and the B.S. degrees are similar, the B.A. requires fewer courses in chemistry and mathematics.

In conjunction with the Department of Science Teaching, the Department of Biology offers courses appropriate for teaching biology in secondary school. Students interested in teaching certification add the necessary courses in education, science, and practice teaching. For more information, see "Education/Arts and Sciences (dual program)" in this section of the catalog.

MAJOR REQUIREMENTS

B.S. Degree Requirements (57 to 59 credits)

Departmental Requirements (38 credits) Students in the B.S. program complete the first-year/sophomore core curriculum (16 credits) plus an additional 22 credits of 300- to 500-level courses that include two 400-level 3-credit laboratories and an additional laboratory experience (1-3 credits). The remaining credits are electives that must include a course with significant communication experience. Students are encouraged to specialize in one of two concentration areas, either cell/molecular biology or ecology/evolution.

Core Curriculum

- BIO 121, General Biology I and
- BIO 305, Integrative Biology Laboratory and
- BIO 326,327 Genetics & Cell Biology I and II and
- BIO 345, Evolution and Ecology

Non-Departmental Requirements (19-21 credits)

The B.S. degree requires, in addition to completion of the Biology Department requirements, (1) two semesters of general or inorganic chemistry with laboratory; (2) one semester of organic chemistry with laboratory; (3) and one of the following two-course sequences in mathematics: two semesters of calculus (MAT 285/286 or MAT 295/296) or one semester of calculus (MAT 295) and a 300- to 500-level statistics course.

Students intending to enroll in an advanced program in the health professions (e.g., medical school) or a graduate program in biology will also need to take an additional semester in organic chemistry and two semesters of physics.

B.A. Degree Requirements (42-44 credits)

Students in the B.A. degree program complete the first-year/sophomore core curriculum (BIO 121,305,326,327,345) and one 3-credit, 400-level laboratory plus 12 credits of additional upper-division courses in biology. Students also take two semesters of general (inorganic) chemistry with laboratories (8 credits), and either: (1) MAT 194; MAT 285; or (2) MAT 221 and either MAT 284 or MAT 285; or (3) one semester of organic chemistry with lab (5 credits).

ENVIRONMENTAL SCIENCES WITH B.S. IN BIOLOGY

(62 to 66 credits)

Students complete the first-year/sophomore core curriculum in biology (BIO 121,305,345), 6 credits of introductory earth science courses, an upper-division laboratory, the senior capstone seminar, plus 24 credits of upper-division courses, at least 15 of which are in biology; the remainder can be from geography, earth science, and civil engineering. In addition, 17 to 19 credits in cognate sciences and mathematics courses are required.

Biology Minor

Contact: Deborah Herholtz, Undergraduate Programs Secretary
114 Life Sciences Complex
315-443-9139

MINOR IN BIOLOGY

The minor in biology is an optional program of study that may be taken in addition to the recognized majors in the College. The minor may be appropriate for students wishing to augment majors such as psychology, engineering, chemistry, and illustration with a biological component.

General Requirement:

20 credits of coursework in biology, 12 credits of which must be at the 300-level or above. Students with 8 AP credits for Introductory Biology must take a minimum of 15 credits of graded courses for the minor.

Course Requirements:

BIO 121/123/124 General Biology I and II

Additional 300- to 500-level elective courses to meet the 20 credits must be chosen to augment the interest of the student.

Biology Secondary Teacher Preparation Program

Combined Bachelor's/Master's Degrees - Secondary Teacher Preparation Programs

School of Education contact: Marie Sarno, Teaching and Leadership Programs, 138 Huntington Hall. mrsarno@syr.edu

This combined degree option, offered by the College of Arts and Sciences and the School of Education meets the academic requirements for a New York Teaching certification for grades 7-12 in a science area. It is an alternative to the existing undergraduate Arts and Sciences/Education dual programs in these areas, and an option that often takes less time and fewer credits than earning the entire master's degree in education after completion of a general Arts and Sciences degree.

The combined bachelor's/master's teacher preparation programs were designed to meet the needs of Arts and Sciences undergraduates who, because of a later decision to become a teacher, would need to add a semester or more to their undergraduate study to complete the existing undergraduate Arts and Sciences/Education program. It also serves those who want or need more flexibility in their undergraduate program than the dual undergraduate degree allows.

Both the Arts and Sciences undergraduate degree with a major related to the subject to be taught, and the School of Education master's degree are conferred at the same time, after all requirements are met – typically at the end of 5 years. Students begin taking education courses as undergraduates, including some in the fourth year that are taken for graduate credit, and apply to become graduate students for their last two semesters. Some summer study (not necessarily at SU) may be required.

The combined program has a two-stage admission process. The first stage involves meeting with the School of Education contact as early as possible to develop a plan, and, if a decision to pursue the program is made, completing a form signed by Education and a new declaration of program of study form in Arts and Science to declare the Arts and Sciences program with “Teacher Preparation/5 year” appended to the title Biology. The second admission stage involves an application to graduate school. Each admission stage requires a 3.0 cumulative GPA and a 3.0 GPA in the courses from the subject to be taught. The second stage also requires successful performance in the undergraduate education courses.

The choices of Arts and Sciences majors, and the course requirements for the Arts and Sciences major, the Liberal Arts Core, and other requirements related to the major are the same for these combined programs as those for students completing the dual enrollment undergraduate Arts and Sciences/Education program. These details about specific adjustments necessary to the Liberal Arts Core and to Arts and Sciences major may be found in the section describing Dual Arts and Sciences/ Education Programs.

Because of the specific course requirements and sequencing of courses, it is important that students interested in one of these programs meet with the Education contact as soon as possible to develop a plan. EDU 204, the first education course, must be taken no later than spring of the junior year.

Biophysical Science Major

Liviu Movileanu
211 Physics Building
314-443-8078
lmovilea@physics.syr.edu

Faculty John M. Belote, Mark Bowick, Samuel H.P. Chan, Michael S. Cosgrove, Scott E. Erdman, Martin B. Forstner, Kenneth Foster, Edward D. Lipson, M. Cristina Marchetti, Alan Middleton, Liviu Movileanu, Ramesh Raina, John M. Russell, Peter Saulson, Eric A. Schiff, Roy Welch

The B.A. in biophysical science is designed to serve students with strong interests in physical and mathematical aspects of the life sciences. The signature of the program is an exceptionally broad training in physics, biology, and chemistry. There are excellent scientific and professional opportunities for students who have acquired this broad grounding; bioinformatics, proteomics, and cell signaling are examples of subfields that benefit from a broad background in biophysical science. In conjunction with the other elements of the liberal arts core, graduates of the program are very well prepared to pursue careers in many sectors of the economy. The major is also well suited to students interested in graduate work in the health professions or in the biophysical sciences.

B.A. DEGREE REQUIREMENTS

The B.A. in biophysical science requires a minimum of 61 credits of classwork, including 55 credits of specified courses. 18 credits of upper-division coursework in biology and physics are required, as are 3 credits of upper-division laboratory work in biology or physics.

- BIO 121,123 General Biology
- PHY 101,102 Major Concepts in Physics
- CHE 106/107 and 116/117 General Chemistry/Lab
- MAT 285,286 Life Sciences Calculus
- PHY 211/221 and 212/222 General Physics/Lab
- CHE 275/276 Organic Chemistry/Lab
- BIO 326,327 Genetics and Cell Biology
- PHY 315 Biological and Medical Physics
- PHY 361 Modern Physics
- Upper-division biology electives
- Upper-division laboratory elective

Footnotes

1. Courses required for medical college admission; students who will apply to medical college must take CHE 325/326, in addition.
2. CHE 109/119 and CHE 129/139, Chemistry for Honors and Majors, may be substituted.
3. MAT 295,296, Standard Calculus, may be substituted (8 credits).
4. PHY 215,216, Physics for Honors and Majors, may be substituted.
5. BIO 355,425,455,462,465,475,565,575, are recommended upper-division biology electives.
6. Three credits of either a biology or a physics upper-division laboratory class, including experimental research, are required; the requirement for 6 elective credits of upper-division biology may be satisfied simultaneously.

Biotechnology

B.S Biotechnology

**Contact: Ramesh Raina; 464 Life Sciences Complex
(315) 443- 4546; raraina@syr.edu**

Biotechnology is an interdisciplinary program that offers students an opportunity to take courses in biology, environmental sciences, chemistry, engineering, management, public policy and law that will be important for addressing biotechnology-related issues. This program will help students prepare for jobs in areas such as the biotech industry, health professions, pharmaceutical and agricultural industry, environmental conservation and research in academia. The program requires many of the same basic courses as the B.S. degree in Biology, with additional courses in engineering, management and public policy. Additionally, a variety of elective courses in biology, engineering, law, management and public policy can be used to fulfill the major requirements. A senior year capstone class (Biotechnology Seminar) and valuable industry internship are part of this major.

TOTAL CREDITS (57-66)

INTRODUCTORY BIOLOGY (4 credits)

- BIO 121 (Students with AP credits of Biology with laboratory may omit introductory courses)

CORE COURSES (9 credits)

- BIO 305 (3 credits)
- BIO 326 (3 credits)
- BIO 327 (3 credits)

UPPER DIVISION REQUIREMENTS (Total 29 credits)

1. Biotechnology courses (8 credits)

- BIO 463: Molecular Biotechnology (4 credits; 3 credits count towards lab)
- BIO 464: Applied Biotechnology (4 credits; 3 credits count towards lab)

2. Bioengineering/Biomaterial Sciences (3 credits)

- BEN 468 (Biomaterial and Medical Devices; 3 credits)

3. Public Policy/Management (6 credits)

- EEE 370 (Introduction to Entrepreneurship and Emerging Enterprises; 3 credits)
- ECO 301 (Intermediate microeconomics; 3 credits)

4. Elective courses (6 credits)

Choose two of the following courses:

- ACC 201 (Introduction to Accounting; 3 credits)
- BEN 541 (Principles of Tissue Engineering; 3 credits)

- BIO 345 (Population Biology; 3 credits)
- BIO 355 (General Physiology; 3 credits)
- BIO 400 (Evolutionary Developmental Biology; 3 credits)
- BIO 409 (General Microbiology; 4 credits)
- BIO 422 (Bioinformatics for Life Scientists; 3 credits)
- BIO 424 (Comparative Vertebrate Biology; 4 credits)
- BIO 425 (Cell and Developmental Biology Lab; 3 credits)
- BIO 432 (Environmental Microbiology Lab; 3 credits)
- BIO 435 (Genetics Lab; 3 credits)
- BIO 447 (Immunobiology; 3 credits)
- BIO 448 (Evolutionary Medicine; 3 credits)
- BIO 455 (Physiology Lab; 3 credits)
- BIO 462 (Molecular Genetics; 3 credits)
- BIO 465 (Molecular Biology Lab; 3 credits)
- BIO 475 (Biochemistry Lab; 3 credits)
- BIO 501 (Biology of Cancer; 3 credits)
- BIO 503 (Developmental Biology; 3 credits)
- BIO 565 (Cellular Physiology; 3 credits)
- BIO 575 (General Biochemistry I; 3 credits)
- BIO 576 (General Biochemistry II; 3 credits)
- BCM 484 (Biomolecular Modeling; 3 credits)
- BTC 401 (Molecular Biology Techniques; 3 credits)
- BPE 420 (Bioseparations; 3 credits)
- BPE 421 Bioprocess Kinetics and Systems Engineering; 3 credits)
- BPE 440 Bioprocess and Systems Laboratory; 3 credits)
- BPE 481 Bioprocess Engineering Design; 3 credits)
- CHE 412 (Metals in Medicine; 3 credits)
- CHE 477 (Structural Biochemistry Lab; 3 credits)
- CIE 472 (Applied Environmental Microbiology; 3 credits)
- ECN 355 (Economics of Health and Medical Care; 3 credits)
- GEO 400 (Food: A Critical Geography; 3 credits)
- LPP 255 (Introduction to the Legal System; 3 credits)
- MAR 301 (Principles of Marketing for Non-Management Students; 3 credits)
- PAF 410 (Practicum in Public Policy; 3 credits)
- PAF 451 (Environmental Policy; 3 credits)
- PHI 393 (Contemporary Ethics; 3 credits)
- PSC 318 (Technology, Politics, and Environment; 3 credits)
- PAF 315 (Methods of Public Policy Analysis and Presentation; 3 credits)
- SHR 355 (Strategic Human Resource Management; 3 credits)

• In addition, other courses related to biotechnology from other departments (for example, Chemistry, Bioengineering, Physics, Psychology, Biomaterial Institute, Maxwell School, Law School, Whitman School, ESF and Upstate Medical University) can be used as elective courses by petitioning to the Biology Department.

SENIOR CAPSTONE SEMINAR COURSE (BIO 421; 3 credits) — 3

INTERNSHIP/Independent Research (BIO 460; 0-4 credits)

This requirement can be fulfilled by a) completing an approved internship at a biotech-related company during spring and/or fall semester of junior or senior year or b) by completed an approved independent research in any of the biotech-related topics, including biology, chemistry, engineering, public policy, law or management. For example, if a student chooses to do independent research in biology, s/he can register for 3 credits of BIO 460 each semester. In addition, an approved internship at a biotech-related company over the summer after the junior year can be petitioned to fulfill this requirement.

MATH AND CHEMISTRY REQUIREMENTS (19-21 credits)

- Chem 106/107: General Chemistry I (4 credit hours)
- Chem 116/117: General Chemistry II (4 credit hours)
- Chem 275/276: Organic Chemistry I (5 credit hours)
- AND either
- Math 285/286: Calculus I and II* (6 credit hours total)
- OR
- Math 295/296: Calculus I and II* (8 credit hours total)
- OR
- Math 285 or 295: Calculus I and a 300 level Statistics Course* (6-7 credit hours total)

Chemistry Major

Chair: Karin Ruhlandt
1-014 Center for Science and Technology
315-443-4109

Faculty Philip N. Borer, Mark S. Braiman, Joseph Chaiken, Arindam Chakraborty, John D. Chisholm, Daniel Clark, James C. Dabrowiak, Robert P. Doyle,

Teresa Freedman, Jerry Goodisman, Bruce S. Hudson, James Kallmerten, Timothy M. Korter, Yan-Yeung Luk, Mathew M. Maye, Karin Ruhlandt, James T. Spencer, Michael B. Sponsler, Nancy I. Totah, Jon Zubieta

Chemistry, the science concerned with the composition, structure, properties, and reactions of matter, especially of atomic, elemental, and molecular systems, is taught through courses in analytical, biological, inorganic, organic, and physical chemistry and through direct participation in original research.

Undergraduate majors in chemistry may elect one of three programs, two leading to a B.A. degree, with an emphasis in either chemistry or biological chemistry, and one to the B.S. degree. Either B.A. degree program requires fewer credits in chemistry than the B.S. option, and yet provides a foundation in the discipline adequate for either immediate professional engagements or for graduate studies. Students studying for a B.S. degree in chemistry gain a more extensive background as they fulfill a broader range of requirements; they must file a petition with the department chair indicating their intent to secure the B.S. degree before it can be awarded.

Students interested in a B.S. degree in biochemistry should see the biochemistry section of this catalog.

For information about certification to teach chemistry at the secondary school level, see Education/Arts and Sciences (dual program) in this section of the catalog.

B.A. DEGREE REQUIREMENTS

(Chemistry Track)

Requirements include 36 credits in chemistry core courses, 32 of which are taken in specific courses. Each student's course of study includes the following:

1. CHE 106,116 or CHE 109,119; CHE 107,117 or CHE 129,139; CHE 275,276,325,326,346,347,356,357; and CHE 335 or FSC 444.
2. At least 4 credits chosen from CHE 411,422,427,436,467,546,575 or selected graduate courses with the instructor's approval.
3. One year of calculus (MAT 285,286 or MAT 295,296) and PHY 211,212,221,222.

Students are encouraged to gain some research experience by enrolling in CHE 450, which may be substituted for a 3-credit course listed in (2) above by petitioning the department.

Students with a score of 5 on the AP chemistry exam who complete CHE 275/276 during their first semester at SU, and who also take all of their required CHE courses numbered 300 or above at SU, are exempt from the requirement to take CHE 106/107 and CHE 116/117 (or their Honors equivalents).

B.A. DEGREE REQUIREMENTS

(Biological Chemistry Track)

Requirements include 21 credits from chemistry core courses, 6 credits from the list, (2) below, of approved biology/biochemistry core courses, and 9 additional credits from an approved list for a total of 36 required credits. Each student's course of study must include the following:

1. CHE 106,116 or CHE 109,119; CHE 107, 117 or 129,139; CHE 275,276,325,326,474.
2. BIO 475 or CHE 477/BCM 477 and BIO 575 or BIO 576.
3. At least 9 credits chosen from CHE 335, 411,412,422,427,436,467,546,575,FSC 444 or selected graduate courses with the instructor's approval.
4. One year of calculus (MAT 285,286 or MAT 295,296) and PHY 211,212,221,222.

Students are strongly encouraged to take BIO 326 and BIO 327 Genetics and Cell Biology. Students are also encouraged to take BIO 465 Molecular Biology Laboratory.

Students may also gain some research experience by enrolling in CHE 450, which may be substituted for a 3-credit course listed in (3) above, by petitioning the department.

Students with a score of 5 on the AP chemistry exam who complete CHE 275/276 during their first semester at SU, and who also take all of their required CHE courses numbered 300 or above at SU, are exempt from the requirement to take CHE 106/107 and CHE 116/117 (or their Honors equivalents).

B.S. DEGREE REQUIREMENTS

At least 45 credits in chemistry are required for the B.S. degree. Each student's course of study should include the following:

1. CHE 106,116 or CHE 109,119; CHE 107, 117 or CHE 129,139; CHE 275,276,325,326, 346,347,356,357,411,422,450 (at least 3 credits);CHE 335 or FSC 444,CHE 474 or BIO 575.
2. At least 3 credits in a lecture course chosen from CHE 427,436,546,575 or selected graduate courses with the instructor's approval.
3. One year of calculus (MAT 295,296) and PHY 211,212,221,222.

If taken in an appropriate area of research, additional credit in CHE 450 beyond the 3 credits required in (1) above may be substituted for up to 4 laboratory credits with the department's approval.

Students with a score of 5 on the AP chemistry exam who complete CHE 275/276 during their first semester at SU, and who also take all of their required CHE courses numbered 300 or above at SU, are exempt from the requirement to take CHE 106/107 and CHE 116/117 (or their Honors equivalents).

DEGREE WITH DISTINCTION

Distinction in Chemistry is awarded by the chemistry department upon completion of the chemistry major and a high-quality chemistry thesis. The thesis will be evaluated and judged by a committee consisting of the research advisor and two other chemistry faculty members. Other requirements include a

minimum cumulative GPA of 3.4 by the end of the senior year, and a minimum cumulative GPA of 3.4 in chemistry department courses. See the chemistry department undergraduate advisor for additional requirements.

Chemistry Minor

Karin Ruhlandt, Chair
1-014 Center for Science and Technology
315-443-4109

Faculty Philip N. Borer, Mark S. Braiman, Joseph Chaiken, Arindam Chakraborty, John D. Chisholm, Daniel Clark, James C. Dabrowiak, Robert P. Doyle, Teresa Freedman, Jerry Goodisman, Bruce S. Hudson, James Kallmerten, Timothy M. Korter, Yan-Yeung Luk, Mathew M. Maye, Karin Ruhlandt, James T. Spencer, Michael B. Sponsler, Nancy I. Totah, Jon Zubiate

MINOR IN CHEMISTRY

The minor in chemistry is offered to provide students with a basic understanding of the structure and behavior of matter at the atomic and molecular level. Increasingly, the control of matter at the level of individual molecules is becoming the key ingredient in sweeping technological advances such as genetic engineering, micro and molecular electronics, advanced materials, and nanotechnology. A minor in chemistry offers a strong complement to major areas of study such as biology, physics, geology, psychology, engineering, pre-medicine, and pre-professional degree programs.

General Requirements:

To complete a minor in chemistry, students take 20 credits carrying a CHE or BCM prefix, including courses that meet requirements A and B below. No part of the minor requirements may be met with transfer or AP credits, nor with independent study (CHE 290, 490), research (CHE 450, BCM 460), or experience credits (CHE 470).

A. Lower-division courses must include either of the following groups: CHE 106/109, 107/129, 116/119, 117/139 (8 credits); or CHE 275/276 (5 credits).

B. Upper-division courses must include 12 credits of CHE and BCM courses numbered above 299, including at least one lecture course from among the group CHE 325, CHE 346, CHE 411; and at least one course with an instructional laboratory component. Examples of courses that satisfy the instructional laboratory requirement, and that mesh well with other requirements of the minor, are:

CHE 326 Organic Chemistry Laboratory II
CHE 335 Chemical and Biochemical Analysis with Lab
CHE 347 Physical-Analytical Chemistry Laboratory
CHE 422 Inorganic Laboratory Techniques
CHE/BCM 477 Preparation and Analysis of Proteins and Nucleic Acids

Chemistry Secondary Teacher Preparation Program

Combined Bachelor's/Master's Degrees - Secondary Teacher Preparation Programs

School of Education contact: Marie Sarno, Teaching and Leadership Programs, 138 Huntington Hall. mrsarno@syr.edu

\This combined degree option, offered by the College of Arts and Sciences and the School of Education meets the academic requirements for a New York Teaching certification for grades 7-12 in a science area. It is an alternative to the existing undergraduate Arts and Sciences/Education dual programs in these areas, and an option that often takes less time and fewer credits than earning the entire master's degree in education after completion of a general Arts and Sciences degree.

The combined bachelor's/master's teacher preparation programs were designed to meet the needs of Arts and Sciences undergraduates who, because of a later decision to become a teacher, would need to add a semester or more to their undergraduate study to complete the existing undergraduate Arts and Sciences/Education program. It also serves those who want or need more flexibility in their undergraduate program than the dual undergraduate degree allows.

Both the Arts and Sciences undergraduate degree with a major related to the subject to be taught, and the School of Education master's degree are conferred at the same time, after all requirements are met – typically at the end of 5 years. Students begin taking education courses as undergraduates, including some in the fourth year that are taken for graduate credit, and apply to become graduate students for their last two semesters. Some summer study (not necessarily at SU) may be required.

The combined program has a two-stage admission process. The first stage involves meeting with the School of Education contact as early as possible to develop a plan, and, if a decision to pursue the program is made, completing a form signed by Education and a new declaration of program of study form in Arts and Science to declare the Arts and Sciences program with “Teacher Preparation/5 year” appended to the title Chemistry. The second admission stage involves an application to graduate school. Each admission stage requires a 3.0 cumulative GPA and a 3.0 GPA in the courses from the subject to be taught. The second stage also requires successful performance in the undergraduate education courses.

The choices of Arts and Sciences majors, and the course requirements for the Arts and Sciences major, the Liberal Arts Core, and other requirements related to the major are the same for these combined programs as those for students completing the dual enrollment undergraduate Arts and Sciences/Education program. These details about specific adjustments necessary to the Liberal Arts Core and to Arts and Sciences major may be found in the section describing Dual Arts and Sciences/ Education Programs.

Because of the specific course requirements and sequencing of courses, it is important that students interested in one of these programs meet with the Education contact as soon as possible to develop a plan. EDU 204, the first education course, must be taken no later than spring of the junior year.

Chinese Studies Minor

Chinese Studies
Gareth Fisher, Advisor
501 Hall of Languages

gfisher@syr.edu

Faculty Gareth J. Fisher, George Kallander, Norman A. Kutcher, Hongying Wang

Minor Requirements

The minor requires 19 credits and attendance at either the SU Abroad Hong Kong or Beijing programs; 12 credits must be at the 300 level or above.

Core Requirements (10 credits):

One year of (Mandarin) Chinese language (the equivalent of Chinese 101 and 102) 8 credits
HUM 403 China: Past, Present and Future (Beijing or Hong Kong) 2credits

Other Requirements (9 credits):

Three additional courses with a China focus chosen from:

Offered in London through SU Abroad:

PSC 300 China, Rise of a Superpower

Offered in Beijing through SU Abroad:

GEO 300 Geographical Approach to Chinese History and Culture
HST 300 China Encounters the West: Qing Dynasty to Early Republic
IRP 431 Environment and Development in China
IRP/PSC 500 China in Transition

Offered in Hong Kong through SU Abroad:

ECN 363 Economic Development of China
PSC 400.2 Hong Kong in the World Political Economy
REL 387 Confucianism & Buddhism in Everyday Asian Life

Offered on the SU main campus:

HST 320 Traditional China
HST 321 Modern China
REL 385 Religion in Chinese Society

One (only) of these courses(listed below) may replace one course with a China focus (listed above):

PSC 346 Comparative Third World Politics (when China is the focus)
BUA /HST PSC 400.1 Culture, Business, and Political Economies of East Asia (Hong Kong only)
HST 401 Research Seminar (SU Main campus only)
LIT 382 Asian Cinema (Hong Kong only)
PSC 400.3 Democratization in East Asia (Hong Kong only)
Selected topics courses may be petitioned to count toward the minor.

Classical Civilization Major

Contact: Donald H. Mills
332 H.B. Crouse
315-443-5903
dhmills@syr.edu

Students in this major study the ancient Mediterranean civilizations and may focus on one or two elements, such as art, history, literature, philosophy, religion, or political and social institutions. Courses are given in English and require no knowledge of Greek or Latin. However, students are encouraged to satisfy the Language Skills requirement by taking one of these languages. In addition, students are strongly encouraged to take LIT 101, 102 Introduction to Classical Literature, LIT 203 Greek and Roman Epic in English Translation, and LIT 211 Greek and Roman Drama in English Translation during the first and sophomore years.

MAJOR REQUIREMENTS

The major in classical civilization requires at least 27 credits taken during the junior and senior years and chosen from the following upper-division courses. No more than 9 credits may be selected from any one department.

English

ETS 325 History and Varieties of English

Art and Music Histories

HOA 302 Greek Art and Architecture
HOA 301 Origins of Western Art
HOA 304 Roman Art and Architecture
HOA 311 Italian Medieval Art History

History

HST 310 Early Medieval Europe
HST 311 Medieval Civilization
HST 319 The Middle East in the 20th Century
HST 352 History of Ancient Greece
HST 353 History of Ancient Rome
HST 354 Decline and Fall of the Roman Empire

Literature

LIT 510 Studies in Greek and Roman Literature in Translation
LIT 521 Mythology

Philosophy

PHI 307 Ancient Philosophy
PHI 391 History of Ethics
PHI 510 Topics in Ancient Philosophy

Classics Major

Donald H. Mills
332 H.B. Crouse
315-443-5903

The study of classics focuses on stimulating and important concepts that, originally defined and refined by classical authors, lead to an increased awareness of the complexities of a nation's culture, its institutions, and its under-lying values. Freedom, justice, absolute and "relative moral values, and the role of the individual in society are still issues of great concern today and are the touchstones by which we measure the accomplishments of civilization. Students of the classics analyze these and other themes of classical literature in the context of their continuing intellectual and emotional influence on Western civilization and the modern world.

To this end, students of the classics study the languages of ancient Greece and Rome. Beginning, intermediate, and advanced courses in such authors as Homer, Sophocles, Plato, Cicero, Virgil, and Augustine provide students with the opportunity to examine the contributions of these seminal thinkers to the intellectual traditions of the Western world.

Students interested in the classics should consult the program coordinator of classics as early as possible. Early consultation is particularly important for students with little or no knowledge of Greek or Latin so that they can be sure to satisfy the major's requirements within four years.

MAJOR REQUIREMENTS

Greek Emphasis

A major consists of GRE 101 through 201 plus 18 upper-division credits in Greek.

Latin Emphasis

A major consists of LAT 101 through 201 plus 18 upper-division credits in LAT courses. Up to 9 credits in Greek numbered above 299 may be substituted for upper-division credits in Latin.

Classics Minor

Contact Donald H. Mills,
332 H.B. Crouse,
315-443-5903

MINOR IN CLASSICS

A minor in classics consists of 21 credits in GRE courses or 21 credits in LAT courses, including 101 through 201 plus 9 upper-division credits.

Cognitive Science Minor

Cognitive Science
Robert Van Gulick, Director
522 Hall of Languages
315-443-5828
rnvangul@syr.edu

The minor in cognitive science offers study in recent interdisciplinary research on cognition. Relevant courses are offered in several departments and colleges, including L.C. Smith College of Engineering and Computer Science and the linguistics, philosophy, and psychology departments within the College of Arts and Sciences. Students may pursue study in cognition science either by enrolling in the interdisciplinary minor or by majoring in selected studies in

cognitive science (see selected studies). Faculty advisors are available within each of these units to help students plan a course of study.

Requirements

The minor requires 18 credits, according to the following distribution:

Students take the core course COG 301 Introduction to Cognitive Science. In addition, students take at least four courses, chosen from at least three of the four areas below:

Cognitive Processes

PSY 322 Cognitive Psychology
PSY 426 Cognitive Neurochemistry
PSY 437 Cognition and Aging

Conceptual Foundations

CIS 467 Introduction to Artificial Intelligence
PHI 377 Philosophy of Psychology
PHI 378 Minds and Machines
PHI 487 History of Epistemology

Formal Systems

CIS 473 Logic and Computability Theory
PHI 551 Symbolic Logic
CIS 565 Artificial Neural Networks

Linguistics

CIS 668 Natural Language Processing
LIN 301/601 Introductory Linguistic Analysis
LIN 431/631 Phonological Analysis
LIN 441/641 Syntactic Analysis

To complete the minor in cognitive science students take an additional cognitive science course, either a fifth course chosen from those listed above or, with the advisor's approval, a credit bearing independent study course (COG 490).

Communication Sciences And Disorders Minor

Communication Sciences and Disorders
Linda Milosky, Chair
805 South Crouse Ave
315-443-9637

The minor is designed for the undergraduate student who wishes to explore the field of communication sciences and disorders, to investigate an area of academic substance, and to become familiar with a field that offers opportunities in both applied and basic research and clinical practice.

The minor consists of 18 credits with only 3 credits permitted at the 200-level.

Required:

CSD 212 Introduction to Communication Sciences and Disorders

At least three courses selected from the following group:

CSD 315 Anatomy and Physiology of the Speech and Hearing Mechanism
CSD 316 Introduction to Applied Phonetics
CSD 325 Fundamentals of Hearing Science
CSD 345 Fundamentals of Speech Science
CSD 409 Cognitive Neuroscience of Speech and Language
CSD 422 Development of Speech and Language

And two additional courses chosen from the prior group or from the following:

CSD 427 Articulation Disorders
CSD 425 Stuttering
CSD 429 Basic Clinical Audiology
CSD 449 Early Assessment and Intervention with Hearing-Impaired Children

Communication Sciences And Disorders Major

Chair: Linda Milosky,
805 South Crouse Avenue, 315-443-9637

Faculty Karen Doherty, Mary Louise Edwards, Annette Jenner, Soren Lowell, Linda Milosky, Joseph Pellegrino, Beth Prieve, Kathy R. Vander Werff

Clinical Staff J. Ford, T. Kordas, K. Kennedy, M. Leece, A. Libera, A. Lightburn, R. Voleti

The program in communication sciences and disorders provides students with a broad education in human communication sciences and disorders. Students may participate in clinical experiences in the Gebbie Speech-Language- Hearing Clinics. The program prepares students for graduate study in speech-language pathology and audiology and other related fields in health, education, and science. Interested students have the opportunity to participate in research in faculty laboratories.

Students interested in this major should contact the communication sciences and disorders office in room 200 of the Hoople Building as early as possible. Students are formally admitted to the major after consulting a department advisor on a plan of study and successfully completing CSD 212 with a B or better, or by petition.

A master's degree is required to practice speech pathology, and a clinical doctoral degree (Au.D.) is required to practice audiology. Generally, a student will need a 3.0 GPA to be considered for these graduate programs. Many programs require a higher GPA.

MAJOR REQUIREMENTS

The B.S. in communication sciences and disorders requires students to fulfill the quantitative skills requirement for the liberal arts core and to complete 34 credits in CSD courses, as outlined below.

Introductory Course (3 credits)

CSD 212 Introduction to Communication Sciences and Disorders 3

Normal Processes (18 credits)

CSD 315 Anatomy and Physiology of the Speech and Hearing Mechanism 3 Normal Processes (18 credits)
CSD 325 Fundamentals of Hearing Science 3
CSD 345 Fundamentals of Speech Science 3
CSD 316 Introduction to Applied Phonetics 3
CSD 409 Cognitive Neuroscience of Speech and Language 3
CSD 422 Development of Speech and Language 3

Disorders (7 credits)

CSD 450 Clinical Classroom Practicum 1
CSD 429 Basic Clinical Audiology 3
CSD 451 Clinical Methods in Speech-Language Pathology 3

CSD Electives (6 credits)

Earth Sciences Major

Jeffrey A. Karson, Chair
204 Heroy Geology Laboratory,
315-443-2672.

Faculty Suzanne L. Baldwin, Marion E. Bickford, Paul G. Fitzgerald, Gregory D. Hoke, Linda C. Ivany, Jeffrey A. Karson, Laura K. Lautz, Henry T. Mullins, Cathryn R. Newton, Scott D. Samson, Christopher A. Scholz, Donald I. Siegel, Bruce H. Wilkinson

The Earth Sciences provide insights into some of humanity's deepest questions. How was the planet Earth, our lifeboat in space, formed? What are the processes that have shaped the Earth — its surface and internal structure? How has life, of which humanity is a part, evolved? Why are there earthquakes, volcanoes, mountain chains, continents, and oceans? How has the surface of the Earth changed through time? On a practical level, the study of Earth Sciences provides a basis for understanding natural hazards, assessing Earth's climate variability and global change, predicting the migration of man-made pollutants, and exploring for the energy and mineral resources upon which society depends. The study of Earth Sciences also, uniquely, provides a perspective of time and an appreciation of the natural world that can enrich a lifetime.

The Department of Earth Sciences offers both bachelor of science and bachelor of arts degrees. The bachelor of science degree is recommended for students intending to pursue a career in the Earth Sciences—either professionally or in academia. Most bachelor of science students continue on to graduate school to obtain a master's degree, the standard entry-level professional degree in the Earth sciences, or a Ph.D. if they intend to pursue a career in academia. Two bachelor of science degree tracks are offered within the department, the B.S. in Earth Sciences, and the B.S. in Earth Sciences with focus in environmental science. The B.S. in Earth Sciences provides a strong background in basic science and geology, and through appropriate choice of electives can be tailored to meet a wide range of possible interests within the Earth Sciences. The B.S. in Earth Sciences with focus in environmental science is offered jointly with the biology department, and is recommended for those students specifically intending to pursue a career in the environmental arena.

The bachelor of arts degree in Earth Sciences is recommended for those students who enjoy and are intellectually intrigued by the Earth Sciences, but intend to pursue careers in other fields. The B.A. degree differs from the B.S. degree in that it requires fewer ancillary science courses and fewer electives from within the department. Along with intellectual enrichment, the B.A. degree provides a rounded science foundation and critical thinking skills that can be applied to numerous other fields. Graduates with B.A.s in Earth Sciences go on to be lawyers, teachers, business people, environmental planners, public policy makers, and politicians, as well as geologists.

REQUIREMENTS FOR A B.A. DEGREE IN EARTH SCIENCES

Any one of the three introductory course sequences listed below under the requirements for the B.S., plus an additional 18 credits in Earth Sciences at 300 level or above.

REQUIREMENTS FOR B.S. DEGREE IN EARTH SCIENCES

Introductory Courses (one of the following sequences)

EAR 101, 102
EAR 203, 102
EAR 105 (104 or 290), 102

Note: EAR 104 is the laboratory for EAR 101 and may be taken concurrently with EAR 102.

Core Courses in Earth Sciences (18 credits plus an approved field course)

EAR 314 Mineralogy
EAR 325 Introduction to Paleobiology
EAR 333 Structural Geology
EAR 470 Experience Credit: Field Geology*
EAR 517 Sedimentary Processes and Systems

* An approved field course of at least 6 credits. The nature of the course may vary with different student programs.

Required Ancillary Sciences and Mathematics

CHE 106/116 General Chemistry
CHE 107/117 General Chemistry Laboratory
PHY 211/221 General Physics and Laboratory I
PHY 212/222 General Physics and Laboratory II
MAT 285/286 Life Sciences Calculus I and II or
MAT 295/296 Calculus I and II

Other Elective Courses (21 credits of department or approved auxiliary science or math courses, at least 9 of which must be upper-division credits)

REQUIREMENTS FOR B.S. DEGREE IN EARTH SCIENCES WITH FOCUS IN ENVIRONMENTAL SCIENCE

INTRODUCTORY EARTH SCIENCE; TWO OF THE FOLLOWING CLASSES, One must be a lab class 7 credits

* EAR 203: Earth System Science and lab
* EAR 106: Environmental Geology
* EAR 101: Dynamic Earth and lab
* EAR 102: History of Earth and Life and lab
* EAR 117: Oceanography
* EAR 111: Climate Change – Past and Present

INTRODUCTORY BIOLOGY 7 credits

* BIO 121: General Biology
* BIO 345: Ecology and Evolution

CORE COURSES 8 credits

* EAR 314: Mineralogy
* EAR 517: Sedimentary Processes and Systems

UPPER DIVISION REQUIREMENTS

Select 21 credit hours from the following. At least 12 hours must be in Earth Science courses. Appropriate substitutions may be made by petition to the Earth Sciences advisor, Dr. Christopher Scholz.

* EAR 325: Introduction to Paleobiology
* EAR 333: Structural Geology
* EAR 510: Paleolimnology
* BIO 451: Ecology
* EAR 417: Geochemistry
* BIO 453: Ecology Lab
* EAR 440: Watershed Hydrology
* BIO 454: Evolution
* EAR 541: Hydrogeology
* EAR 342: Geomorphology
* GEO 383: Geographic Information Systems
* EAR 345: Global Change: The Geologic Record
* GEO 386: Quantitative Geographical Analysis
* EAR 544: Quaternary Environments/Climatic Change (Envir)
* EAR 555: Environmental Geophysics
* CIE 471: Environmental Chemistry and Analysis
* BIO 409: General Microbiology
* CIE 555: Hazardous Waste Management
* BIO 415: Conservation Biology
* CIE 561: Air Resources I

REQUIRED SENIOR CAPSTONE COURSE 3 credits.

* BIO 428: Environmental Seminar

ADDITIONAL REQUIREMENTS IN COGNATE SCIENCES AND MATH 20 to 22 credit hours.

* EITHER Math 285/286 - or - MATH 295/296 - or - MATH 295 plus Statistics (MAT 221)

* 1 year General Chemistry: CHE 106/116, 107/117

A year of General Physics (PHY 211/221 and 212/222) is also recommended for students interested in pursuing careers in hydrology.

SUMMER FIELD EXPERIENCE

EAR 470 Field Experience (6 cr., by transfer)

The Geology Field Experience. This requirement consists of 6 or more credit hours of transfer credit brought in as EAR 470. The requirement is satisfied by participation in an approved 6-week summer geological field camp, or through an alternative approved field program. The field experience is typically scheduled in the summer between junior and senior years, but completion of the requirement during the summer following graduation is also possible. For enrollment in a traditional Geological Field Camp, courses in Structural Geology and Sedimentary Geology may be required.

ADDITIONAL AVAILABLE COURSES

Several courses in the College of Environmental Science and Forestry also will be available for students in this program, as substitutes for Earth Science Upper Division Electives, pending permission of the Undergraduate Advisor. These courses include:

- * EFB 415: Ecological Biogeochemistry
- * FCH 515: Methods of Environmental Chemical Analysis
- * EFB 452: Principles of Chemical Control
- * FCH 352: Introduction to Remote Sensing
- * EFB 505: Microbial Ecology
- * EFB 510: Health and Our Chemical Environment
- * EFB 524: Limnology
- * EFB 525: Limnology laboratory

Earth Sciences Minor

Jeffrey A. Karson, Chair
204 Heroy Geology Laboratory
315-443-2672

The Earth Sciences provide insights into some of humanity's deepest questions. How was the planet Earth, our lifeboat in space, formed? What are the processes that have shaped the Earth — its surface and internal structure? How has life, of which humanity is a part, evolved? Why are there earthquakes, volcanoes, mountain chains, continents, and oceans? How has the surface of the Earth changed through time? On a practical level, the study of Earth Sciences provides a basis for understanding natural hazards, assessing Earth's climate variability, predicting the migration of man-made pollutants, and exploring for the energy and mineral resources upon which society depends. The study of earth sciences also, uniquely, provides a perspective of time and an appreciation of the natural world that can enrich a lifetime.

MINOR IN EARTH SCIENCES

To complete a minor in Earth Sciences, students must take 19 credits in Earth sciences, 12 of which must be in courses numbered 300 or above.

Earth Sciences Secondary Teacher Preparation Program

Combined Bachelor's/Master's Degrees - Secondary Teacher Preparation Programs
School of Education contact: Marie Sarno, Teaching and Leadership Programs, 138 Huntington Hall. mrsarno@syr.edu

This combined degree option, offered by the College of Arts and Sciences and the School of Education meets the academic requirements for a New York Teaching certification for grades 7-12 in a science area. It is an alternative to the existing undergraduate Arts and Sciences/Education dual programs in these areas, and an option that often takes less time and fewer credits than earning the entire master's degree in education after completion of a general Arts and Sciences degree.

The combined bachelor's/master's teacher preparation programs were designed to meet the needs of Arts and Sciences undergraduates who, because of a later decision to become a teacher, would need to add a semester or more to their undergraduate study to complete the existing undergraduate Arts and Sciences/Education program. It also serves those who want or need more flexibility in their undergraduate program than the dual undergraduate degree allows.

Both the Arts and Sciences undergraduate degree with a major related to the subject to be taught, and the School of Education master's degree are conferred at the same time, after all requirements are met – typically at the end of 5 years. Students begin taking education courses as undergraduates, including some in the fourth year that are taken for graduate credit, and apply to become graduate students for their last two semesters. Some summer study (not necessarily at SU) may be required.

The combined program has a two-stage admission process. The first stage involves meeting with the School of Education contact as early as possible to develop a plan, and, if a decision to pursue the program is made, completing a form signed by Education and a new declaration of program of study form in Arts and Science to declare the Arts and Sciences program with "Teacher Preparation/5 year" appended to the title Earth Sciences. The second admission stage involves an application to graduate school. Each admission stage requires a 3.0 cumulative GPA and a 3.0 GPA in the courses from the subject to be taught. The second stage also requires successful performance in the undergraduate education courses.

The choices of Arts and Sciences majors, and the course requirements for the Arts and Sciences major, the Liberal Arts Core, and other requirements related to the major are the same for these combined programs as those for students completing the dual enrollment undergraduate Arts and Sciences/Education program. These details about specific adjustments necessary to the Liberal Arts Core and to Arts and Sciences major may be found in the section describing

Because of the specific course requirements and sequencing of courses, it is important that students interested in one of these programs meet with the Education contact as soon as possible to develop a plan. EDU 204, the first education course, must be taken no later than spring of the junior year.

Economics Major

Chair: Chihwa (Duke) Kao
110 Eggers Hall
315-443-3612.

Faculty Elizabeth Ashby, Badi Baltagi, Donald H. Dutkowsky, Gary V. Englehardt, Jerry Evensky, Deborah A. Freund, Susan H. Gensemer, William Horrace, Emil Iantchev, Chihwa (Duke) Kao, Jerry S. Kelly, Thomas J. Kniesner, Jeffrey D. Kubik, Derek Laing, Mary E. Lovely, Robin P. Malloy, John G. McPeak, Devashish Mitra, Inge O'Connor, Jan Ivar Ondrich, John L. Palmer, J. David Richardson, Christopher Rohlfs, Stuart S. Rosenthal, Perry Singleton, A. Dale Tussing, Michael Wasylenko, Jeffrey Weinstein, Peter J. Wilcoxon, John M. Yinger

Economists analyze the internal functioning of markets and market outcomes. While modern economics focuses on market forces, markets function imperfectly in some cases and that introduces scope for policy action. Our curriculum emphasizes the application of economics to the study of public policy issues and the role of government in a market economy. Examples include analysis of international trade and relations, economic behavior in the workplace, health care, taxation, and numerous other spheres of a global economy. Students who major in economics prepare themselves for a variety of careers. Some move on to graduate study in economics and become professional economists; the majority, however, pursue careers in law, public policy, government, and many aspects of business, including banking and financial analysis, management, and marketing. Consequently, some students choose to pursue double majors and dual degrees. Further information on these programs is available in the Academic Rules and Regulations section of this catalog or in the economics department office.

The department offers both the B.A. degree in economics as well as a B.S. degree in economics. The B.A. has a liberal arts focus and emphasizes the applied and policy aspects of economics. The B.S. is attractive to the more mathematically oriented student. Either degree is excellent preparation for graduate study or an economics-related career.

MAJOR REQUIREMENTS

B.A. Degree

A student becomes an economics major after consulting with an economics advisor on a plan and course of study and bringing them to the department office for approval. To earn a B.A. in economics, a student:

1. Fulfills the quantitative skills requirement for the liberal arts core;
2. Completes 3-6 credits of Principles of Economics (ECN 203, or equivalent); and
3. Completes 24 credits of upper-division economics courses, including:

- a) ECN 301 (or ECN 311) Intermediate Microeconomic Theory
- b) ECN 302 Intermediate Macroeconomic Theory
- c) Six other upper-division electives in economics (ECN 300 or higher, excluding ECN 365 and 470), including at least two courses that have a prerequisite of ECN 301 (or 311) or ECN 302.

In all, 27 to 30 credits of economics courses are required (depending on whether 3 or 6 credits of principles are taken). Graduation with a B.A. in economics requires an overall grade point average of 2.0 or higher in 24 credits of upper-division economics courses.

Scheduling

It is recommended that students sequence their courses in the following manner:

1. The Principles of Economics courses and the quantitative skills requirement of the liberal arts core should be completed by the end of the sophomore year or earlier.
2. The quantitative skills requirement of the Liberal Arts Core should be completed before the intermediate theory courses (ECN 301 or ECN 311 and ECN 302) are taken.
3. By the end of the junior year or earlier, students should have taken the intermediate theory courses (ECN 301 or 311, and 302) and perhaps taken two upper-division economics courses.
4. It is recommended that students take at least 3 credits of statistics, such as ECN 521 or STT 101 and MAX 201.
5. Senior majors are encouraged to enroll in courses numbered 500-599. Often these classes are designed to be small seminars for the advanced undergraduate. Undergraduate majors who have completed the stated prerequisites for the 500 -level courses should not be discouraged by the possibility that some master's students may also be enrolled.

Substitutions

Courses not listed in the above plan and/or taken outside Syracuse University will not be counted toward the fulfillment of economics degree requirements except upon the approval of a petition. Such petitions should be approved before the substitution course is taken, unless it was completed while the student was regularly enrolled in the school or college in which the course was offered. For management students with a second major in economics, FIN 355 may be used as a substitute for ECN 481. Credit is not given for both ECN 481 and FIN 355.

Curriculum Suggestions

Students who are more analytically inclined or interested in graduate school should plan to take MAT 295/296, and take ECN 311 rather than ECN 301. In addition, they may wish to take ECN 505 and 522 as upper-division economics electives. Students who expect to continue their studies in economics at the graduate level should follow the above suggestions and also consider selecting their upper-division economics electives from ECN 431,441, 451,465,481, and 566.

Students planning to enter law school after graduation may find ECN 431,441,451,481, and 575 of particular interest, while those who plan to pursue

graduate degrees in management may want to choose from ECN 465,481,566, and 575. Students pursuing an international specialty might be interested in ECN 465,481, and 566. Students preparing a public sector specialty might find ECN 431,435, and 441 of particular interest. Those with a human resources interest should select electives from ECN 451 and 481. Those interested in macroeconomic theory should consider ECN 431,481 and 566.

The School of Management allows economics majors to take one course per semester in the School of Management. These courses are counted as general electives and not as economics or arts and sciences electives.

B.S. Degree

The B.S. degree has an orientation toward the statistical and mathematical skills necessary to work as a professional economist or pursue graduate work in economics, public policy, or business. Students who want these career tracks or who want to acquire more analytical skills that can be used in a variety of careers should pursue the B.S. degree.

1. Completes calculus courses: Calculus I (MAT 295) and Calculus II (MAT 296);
2. Completes 3 to 6 credits of Principles of Economic (ECN 203, or the equivalent); and
3. Completes 30 credits of upper-division economics courses, including:

- a) ECN 311 Intermediate Mathematical Microeconomics (not ECN 301);
- b) ECN 302 Intermediate Macroeconomics Theory;
- c) ECN 505 Mathematical Economics;
- d) ECN 521 Economic Statistics;
- e) ECN 522 Econometric Methods;

f) Five other 3-credit upper-division electives in economics (ECN 300 or higher, excluding ECN 365 and 470), including at least two courses that have a prerequisite of ECN 311 or ECN 302.

In all, 30 credits of upper-division coursework (courses numbered 300 or higher) in economics are required, in addition to the two courses in calculus, and principles of economics. (In some instances, students will be allowed to substitute MAS 261 and 362 for ECN 521.)

Graduation with a B.S. in Economics requires an overall grade point average of 2.0 or higher in the 30 credits of upper-division economics courses. .

Scheduling

It is recommended that students sequence their courses in the following manner:

1. The Principles of Economics and the two required calculus courses should be completed by the end of the sophomore year or earlier, and before taking ECN 311.
2. ECN 311 can be taken in the fall of the junior year or earlier, along with ECN 521. ECN 522 can be taken in the spring of the junior year or earlier, along with ECN 302. One (or two) of the five economics major electives should be taken by the end of the junior year or earlier.
3. ECN 505 and four (or three) of the five economics major electives should be taken in the senior year or earlier.
4. Senior majors are encouraged to enroll in courses numbered 500-599. Often these classes are designed to be small seminars for the advanced undergraduate. Undergraduate majors who have completed the stated prerequisites for the 500 -level courses should not be discouraged by the possibility that some master's students may also be enrolled.

Substitutions

Substitution suggestions described above for the B.A. degree apply to B.S. degree majors as well.

Curriculum Suggestions

The curriculum suggestions described above for the B.A. degree apply to B.S. degree economic majors as well.

Economics Minor

Chihwa (Duke) Kao, Chair
110 Eggers Hall
315-443-3612

Economists analyze the internal functioning of markets and market outcomes. While modern economics focuses on market forces, markets function imperfectly in some cases and that introduces scope for policy action. Our curriculum emphasizes the application of economics to the study of public policy issues and the role of government in a market economy. Examples include analysis of international trade and relations, economic behavior in the workplace, health care, taxation, and numerous other spheres of a global economy. Students who major in economics prepare themselves for a variety of careers. Some move on to graduate study in economics and become professional economists; the majority, however, pursue careers in law, public policy, government, and many aspects of business, including banking and financial analysis, management, and marketing. Consequently, some students choose to pursue double majors and dual degrees. Further information on these programs is available in the Academic Rules and Regulations section of this catalog or in the economics department office.

MINOR IN ECONOMICS

To pursue a minor in economics, students petition the department and choose one of the two plans of study below. A 2.0 minimum grade point average is required of all courses counted toward the minor.

Acceptance of courses other than those listed below requires approval of a petition. Only 3 credits can be transfer credit. All credits for the minor must be Syracuse University letter-graded coursework, except transfer credit. School of Management majors minoring in economics may substitute FIN 355 for ECN 481. Credit cannot be granted, however, for both ECN 481 and FIN 355. Minors may not receive credit for both ECN 365 and ECN 465.

Plan One (Total of 18 credits)

ECN 203 Economic Ideas and Issues
ECN 301 or ECN 311 Intermediate Microeconomics Theory (or Intermediate Mathematical Microeconomics)

ECN 302 Intermediate Macroeconomics Theory
Economics electives (any three ECN courses numbered 300 to 599 except ECN 301,302, 311,470,495,496,499).

Plan Two (Total of 18 credits)

ECN 101 Introductory Microeconomics
ECN 102 Introductory Macroeconomics
ECN 301 or ECN 311 Intermediate Microeconomics Theory (or Intermediate Mathematical Microeconomics)
ECN 302 Intermediate Macroeconomics Theory
Economics electives (any two ECN courses numbered 300 to 599 except ECN 301,302, 311,470,495,496,499).

Economics Secondary Teacher Preparation Program

Combined Bachelor's/Master's Degrees - Secondary Teacher Preparation Programs
School of Education contact: Marie Sarno, Teaching and Leadership Programs, 138 Huntington Hall. mrsarno@syr.edu

This combined degree option, offered by the College of Arts and Sciences and the School of Education meets the academic requirements for a New York Teaching certification for grades 7-12 in social studies. It is an alternative to the existing undergraduate Arts and Sciences/Education dual programs in these areas, and an option that often takes less time and fewer credits than earning the entire master's degree in education after completion of a general Arts and Sciences degree.

The combined bachelor's/master's teacher preparation programs were designed to meet the needs of Arts and Sciences undergraduates who, because of a later decision to become a teacher, would need to add a semester or more to their undergraduate study to complete the existing undergraduate Arts and Sciences/Education program. It also serves those who want or need more flexibility in their undergraduate program than the dual undergraduate degree allows.

Both the Arts and Sciences undergraduate degree with a major related to the subject to be taught, and the School of Education master's degree are conferred at the same time, after all requirements are met – typically at the end of 5 years. Students begin taking education courses as undergraduates, including some in the fourth year that are taken for graduate credit, and apply to become graduate students for their last two semesters. Some summer study (not necessarily at SU) may be required.

The combined program has a two-stage admission process. The first stage involves meeting with the School of Education contact as early as possible to develop a plan, and, if a decision to pursue the program is made, completing a form signed by Education and a new declaration of program of study form in Arts and Science to declare the Arts and Sciences program with “Teacher Preparation/5 year” appended to the title Economics. The second admission stage involves an application to graduate school. Each admission stage requires a 3.0 cumulative GPA and a 3.0 GPA in the courses from the subject to be taught. The second stage also requires successful performance in the undergraduate education courses.

The choices of Arts and Sciences majors, and the course requirements for the Arts and Sciences major, the Liberal Arts Core, and other requirements related to the major are the same for these combined programs as those for students completing the dual enrollment undergraduate Arts and Sciences/Education program. These details about specific adjustments necessary to the Liberal Arts Core and to Arts and Sciences major may be found in the section describing Dual Arts and Sciences/ Education Programs.

Because of the specific course requirements and sequencing of courses, it is important that students interested in one of these programs meet with the Education contact as soon as possible to develop a plan. EDU 204, the first education course, must be taken no later than spring of the junior year.

English And Textual Studies Major

Claudia Klaver, Director of Undergraduate Studies
401 Hall of Languages
315-443-2173

Faculty Crystal Bartolovich, Michael Burkard, Dymrna Callaghan, Steven Cohan, Michael J.C. Echeruo, Susan Edmunds, Carol Fadda-Conrey, Arthur Flowers, Ken Frieden, Michael Goode, Roger Hallas, Brooks Haxton, Mary Karr, Christopher Kennedy, Claudia Klaver, Amy Schragger Lang, Scott Lyons, Erin S. Mackie, Patricia A. Moody, Kevin Morrison, Donald E. Morton, Patricia Roylance, George Saunders, Stephanie Shirilan, Bruce Smith, Dana Spiotta, Harvey Teres, Greg Thomas, Silvio Torres-Saillant, David Yaffe

The Department of English offers programs in textual and cultural studies, with special emphasis on literary history, criticism, and theory. Courses deal with such problems as the nature and implications of reading and interpretation, the production of meaning in language and culture, and the nature of literary forms. The curriculum also includes courses in creative writing.

Students who wish to major in English and Textual Studies should consult the ETS coordinator to be assigned an appropriate advisor, who helps plan the course of study. Students may consult the department chair about the curriculum at any time.

Some students majoring in English and Textual Studies may wish to apply for a dual enrollment with another school or college within the University, such as the School of Information Studies, the S.I. Newhouse School of Public Communications, or the School of Education. Those interested in certification to teach English should see “Education/Arts and Sciences (dual program)” in the School of Education's Academic Offerings.

Students must have departmental approval to become candidates for honors or distinction in English and Textual Studies. For more information, see the web site at english.syr.edu.

MAJOR REQUIREMENTS

To qualify for a B.A. degree in English and Textual Studies, students complete a total of 30 credits of coursework. These credits include ETS 242 and one course chosen from among the following: ETS 113,114,115,117,118,119,121,142,145,151,152,153,154,181,182,184, and 192. (Advanced Placement credit does not count toward this requirement.) The remaining 24 credits are in courses numbered above 299 and must include ETS 305. Five other courses (15 credits) are chosen from among upper division courses other than creative writing workshops (401 and 403). Two of these five courses must be focused predominantly on texts produced before 1900. The remaining two courses (6 credits) are considered major electives and may be chosen from among upper division courses or advanced creative writing workshops (ETS). One of the major elective courses may be a Writing Program course (WRT) or a Literature

in Translation (LIT) numbered above 299. Upper division creative writing courses require a writing sample and permission of the instructor; ETS majors are not given preference.

Students dually enrolled in the School of Education include the following among the 24 credits of upper-division courses: ETS 325; a course in Shakespeare; a course with multicultural content; and either WRT 301, 303, 307, or 428.

English And Textual Studies Minor

Contact Claudia Klaver, Director of Undergraduate Studies
401 Hall of Languages
315-443-2173

Faculty Crystal Bartolovich, Michael Burkard, Dympna Callaghan, Steven Cohan, Michael J.C. Echeruo, Susan Edmunds, Carol Fadda-Conrey, Arthur Flowers, Ken Frieden, Michael Goode, Roger Hallas, Brooks Haxton, Mary Karr, Christopher Kennedy, Claudia Klaver, Amy Schragger Lang, Scott Lyons, Erin S. Mackie, Patricia A. Moody, Kevin Morrison, Donald E. Morton, Patricia Roylance, George Saunders, Stephanie Shirilan, Bruce Smith, Dana Spiotta, Harvey Teres, Greg Thomas, Silvio Torres-Saillant, David Yaffe

The Department of English offers programs in textual and cultural studies, with special emphasis on literary history, criticism, and theory. Courses deal with such problems as the nature and implications of reading and interpretation, the production of meaning in language and culture, and the nature of literary forms. The curriculum also includes courses in creative writing.

MINOR IN ENGLISH AND TEXTUAL STUDIES

The English and Textual Studies minor, designed to supplement a major program in another department or college, requires 18 credits of coursework. Six credits must be in courses at the 100 or 200 level (lower division). (Advanced placement credit does not count toward this requirement.) 12 credits must be in courses numbered above 299 (upper division). It is recommended that one of the lower division courses be ETS 242 Reading and Interpretation. Students with a special interest in writing may include among their upper division courses one course offered by the Writing Program (WRT) numbered above 299 or one Literature in Translation (LIT) numbered above 299.

Although students are free to choose particular courses according to their interests, the following models are offered for those wishing to give their minor program further definition or structure.

Historical Emphasis

Recommended courses:

ETS 242; Reading and Interpretation and either ETS 115 British Literary History, ETS 119 U.S. Literary History, or the survey courses ETS 113, 114, 117, or 118, plus 12 credits chosen from among upper-division ETS courses in the history group (courses whose second digit is 1 or 2).

Theoretical Emphasis

Recommended courses:

ETS 242 Reading and Interpretation, ETS 305 Critical Analysis, ETS 345 Critical Theory; 3 more lower-division credits, plus 6 chosen from among upper-division ETS courses in the theory group (courses whose second digit is 3 or 4).

Political Emphasis

Recommended courses:

ETS 242 Reading and Interpretation and either ETS 181 Class and Literary Texts, ETS 182 Race and Literary Texts, ETS 184 Ethnicity and Literary Texts, or ETS 192 Gender and Literary Texts, plus 12 credits chosen from among upper-division ETS courses in the politics group (courses whose second digit is 5 or 6).

Film Emphasis

Recommended courses: ETS 242 Reading and Interpretation and ETS 154 Interpretation of Film, plus 12 credits chosen from among upper-division ETS courses on film topics (as indicated by "Film" or "Cinema" in the section title.)

Creative Writing Emphasis

Recommended courses: 6 lower-division credits, preferably including either ETS 215 Sophomore Poetry Workshop or ETS 217 Sophomore Fiction Workshop, and either ETS 107 Living Writers, ETS 151 Interpretation of Poetry, ETS 152 Interpretation of Drama, or ETS 153 Interpretation of Fiction; 12 upper division credits, preferably including 3 credits of either ETS 301 Reading and Writing Prose, ETS 303 Reading and Writing Fiction, or ETS 304 Writings Poetry; and 3 credits of ETS 401 Advanced Poetry Workshop, or ETS 403 Advanced Fiction Workshop (each of these requires a writing sample and instructor's permission). Advanced students may occasionally obtain the instructor's permission to enroll in a graduate level workshop (ENG 615 Open Poetry Workshop or ENG 617 Open Fiction Workshop) or "forms" course (ENG 650).

Declaring a minor

To declare an ETS minor, come to the English Undergraduate Office (420 Hall of Languages) and fill out a Declaration of Minor form. A copy of the form must be filed with your home college.

English And Textual Studies Secondary Teacher Preparation

Combined Bachelor's/Master's Degrees - Secondary Teacher Preparation Programs
School of Education contact: Marie Sarno, Teaching and Leadership Programs, 138 Huntington Hall. mrsarno@syr.edu

This combined degree option, offered by the College of Arts and Sciences and the School of Education meets the academic requirements for a New York Teaching certification for grades 7-12 in English. It is an alternative to the existing undergraduate Arts and Sciences/Education dual programs in these areas, and an option that often takes less time and fewer credits than earning the entire master's degree in education after completion of a general Arts and

Sciences degree.

The combined bachelor's/master's teacher preparation programs were designed to meet the needs of Arts and Sciences undergraduates who, because of a later decision to become a teacher, would need to add a semester or more to their undergraduate study to complete the existing undergraduate Arts and Sciences/Education program. It also serves those who want or need more flexibility in their undergraduate program than the dual undergraduate degree allows.

Both the Arts and Sciences undergraduate degree with a major related to the subject to be taught, and the School of Education master's degree are conferred at the same time, after all requirements are met – typically at the end of 5 years. Students begin taking education courses as undergraduates, including some in the fourth year that are taken for graduate credit, and apply to become graduate students for their last two semesters. Some summer study (not necessarily at SU) may be required.

The combined program has a two-stage admission process. The first stage involves meeting with the School of Education contact as early as possible to develop a plan, and, if a decision to pursue the program is made, completing a form signed by Education and a new declaration of program of study form in Arts and Science to declare the Arts and Sciences program with “Teacher Preparation/5 year” appended to the title English and Textual Studies. The second admission stage involves an application to graduate school. Each admission stage requires a 3.0 cumulative GPA and a 3.0 GPA in the courses from the subject to be taught. The second stage also requires successful performance in the undergraduate education courses.

The choices of Arts and Sciences majors, and the course requirements for the Arts and Sciences major, the Liberal Arts Core, and other requirements related to the major are the same for these combined programs as those for students completing the dual enrollment undergraduate Arts and Sciences/Education program. These details about specific adjustments necessary to the Liberal Arts Core and to Arts and Sciences major may be found in the section describing Dual Arts and Sciences/ Education Programs.

Because of the specific course requirements and sequencing of courses, it is important that students interested in one of these programs meet with the Education contact as soon as possible to develop a plan. EDU 204, the first education course, must be taken no later than spring of the junior year.

English Education

Arts And Sciences/Education (Dual)

Arts and Sciences contact :Ann Marie McGinnis, Director, Student Records Office, 329 Hall of Languages, amginnis@syr.edu or 315-443-2205.

Education contacts: Pam Hachey (pkhachey@syr.edu) or Carol Radin (cvsradin@syr.edu), Assistant Directors of Academic Advising, Office of Academic and Student Services, 270 Huntington Hall, 315-443-9319

In order to graduate with eligibility to apply for New York State teacher certification in the secondary (7-12) academic areas of English, mathematics, science, or social studies, dual enrollment with the School of Education is required. Completion of all College of Arts and Sciences requirements (including the Liberal Arts Core with courses from specific categories and a major in one of the listed content areas) combined with 36 credits of education courses (including methods and student teaching) for a total of 123-126 credits are required. In addition, completion of New York State testing and other certification requirements apply. Please see the following detailed information.

The dual programs for prospective teachers provide a broad general education (the Liberal Arts Core of the College of Arts and Sciences), depth in the content area to be taught, and professional coursework and field experiences focusing on the skills and knowledge necessary to teach students from diverse backgrounds and with varying abilities. The programs available are listed below. A minimum of 123-126 credits are required. Some students may need to complete total program credits that are slightly greater than 126.

Students in the dual programs complete a program of study offered jointly by the College of Arts and Sciences and the School of Education: English education; mathematics education; science education (biology, chemistry, earth science, or physics); or social studies education. Students also complete the requirements for a College of Arts and Sciences major in the subject area.

Within the Liberal Arts Core, major, and/or electives, students must include one course from the following:

- mathematics (MAT 112 may not meet this requirement) (3 credits)
- history (3 credits)
- social science course other than history or psychology (3 credits)
- arts and culture/fine arts (3 credits)
- humanities course other than FIA or HST (3 credits)
- approved humanities or social science course with non-Western content (list is available from the education advisor) (3 credits)

When planning their subject areas, students should keep in mind that at least 9 credits of education are required in the spring of the junior year in order to meet the prerequisites for the fall student teaching experience. As many content (subject area) courses as possible should be completed by the end of the junior year. Other electives and remaining Liberal Arts Core courses can be delayed until the spring of the senior year.

All programs meet the academic requirements for New York State initial adolescent certification to teach grades 7-12 in the specified subject. Successful completion of certification examinations is also required for New York State teacher certification.

A core of professional requirements shared by all of these is as follows. Additional liberal arts, professional, and other requirements are described in the specific program sections below. More detailed information is available from the program coordinator.

PROFESSIONAL EDUCATION CORE (INCLUDING REQUIREMENTS OTHER THAN COURSES)

The professional sequence includes coursework, field experience and student teaching, and requirements other than coursework, described below.

The Professional Core Requires:

EDU 204 Principles of Teaching and Learning in Inclusive Classrooms* (4 credits)

EDU 304 Study of Teaching* (4 credits)
EDU 310 American School* (3 credits)
RED 326 Literacy Across the Curriculum* (4 credits)

Workshops: Identifying/Reporting Child Abuse; Violence Prevention; Child Abduction Prevention; Highway Safety; Alcohol/Drug/Tobacco Prevention; Fire and Arson Prevention.

* EDU 304 and RED 326 should be taken after EDU 204, no later than the first semester of junior year. EDU 204 may be taken as early as the second semester of first year. EDU 310 may be taken before, during, or after professional semesters.

The semesters of registration listed are for students completing the program in four years. Others would adjust accordingly, with the candidacy and second professional semester as late in the program as possible.

Candidacy Semester

(spring of the junior year)

Prerequisites: Enrollment in the specific program; development of an acceptable professional portfolio (reviewed during the fall prior to the candidacy semester); a minimum 2.8 cumulative average, and 2.8 (3.0 for English education) in both required education and in content (subject matter) courses; completion of EDU 204 and 304, RED 326, and the number of content courses required by the program; and appropriate progress toward meeting all of the program assessment proficiencies and dispositions.

Note: SU Abroad study planned for the junior year would need to take place in the fall semester.

SED 413 or SCE 413 Methods and Curriculum in Teaching (in specific subject area) (3 credits)
SED 409 Adapting Instruction for Diverse Student Needs (3 credits)
EDU 508 Student Teaching/Secondary Candidacy (including during SU's spring break) (3 credits)

Standard Student Teaching Semester

(fall of the senior year)

Prerequisites: Successful completion of the candidacy semester and an acceptable professional portfolio; completion of the required amount of credits in the content area; grade point averages at or above the minimums stated above; successful review of all appropriate student assessment proficiencies and dispositions.

EDU 508 Student Teaching (9 credits)
SED 415 Teacher Development (3 credits)

Because this student teaching placement is a full-time, 10-week experience, no other daytime courses can be taken, and it is not advisable to plan more than 12 total credits in this semester, unless approved by an advisor.

Admissions

A minimum of a 2.8 grade point average is required for admission to these Arts and Sciences and Education dual enrollment programs. GPA requirements for admission to the candidacy and standard student teaching semesters, and other prerequisites to these semesters are mentioned above. Additional requirements may apply to some programs.

Intra-University transfer to the School of Education is coordinated through the Office of Academic and Student Services, 270 Huntington Hall. Upon acceptance into a dual program, the student should also complete the official program of study form required by the College of Arts and Sciences. Students may not declare a major in an Arts and Sciences/Education program until they are accepted by the School of Education. Application should be made as soon as possible, but must be made no later than the start of the fall of the junior year by those hoping to complete the program in four years (although even then extra semesters may be necessary).

Advising And Special Services

A dually enrolled student has an advisor in each college or one advisor dually appointed to both colleges. Early contact with the education advisor is important for progress and careful planning. Contact is also required before each registration in order to have the School of Education advising hold lifted.

Students planning graduation from these programs are expected to ensure a senior check has been completed with the School of Education, in addition to similar monitoring by the College of Arts and Sciences. They also may take advantage of the job search services of the Education Career Services Office, 270 Huntington Hall.

English Education

Contact: Kelly Chandler-Olcott, 200 Huntington Hall, 315-443-4755 or kpchandl@syr.edu

In addition to the professional education requirements, students in English education complete a major in English and Textual Studies and the following requirements:

Core Requirements

Secondary English education majors must complete the Liberal Arts Core curriculum with these additional specific requirements:

WRT 205 Writing Studio 2 **OR**

WRT 209 Writing Studio 2 (Honors) (3 credits)
One mathematics (MAT) course from Liberal Arts Core Quantitative Skills List (3 credits)
One approved history (HST) course (3 credits)
One social science course (other than history (HST) or psychology (PSY)) (3 credits)
One fine arts within Arts and Sciences (FIA) course (3 credits)

Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study

English Content

English Education students must complete the English and Textual Studies major as defined by the English Department. Twenty-four credits of the 30 required must be upper-division (300 level and above).

English Education students must include the following courses (not required of other ETS majors) within their majors:

ETS 325 History and Varieties of English (formerly ETS 333) (3 credits)
One course concentrating on Shakespeare (3 credits)
One course with a multicultural (non-Western/ American minority) emphasis (3 credits)
One upper division WRT course, chosen from WRT 301, 303, 307, **OR** 428 (3 credits)

In addition, students complete one speech communication course from the following:

CRS 225 Public Advocacy (3 credits)
CRS 231 Interpersonal Communications (3 credits)
CRS 235 Small Group Communications (3 credits)
CRS 325 Presentational Speaking (3 credits)

Integrated Learning Major In Ethics

Integrated Learning Major in Ethics

441 Hall of Languages
315-443-1414
emjulian@syr.edu

Professionals in technically demanding fields are commonly asked to apply their expertise to other seemingly unrelated disciplines. As a result, they must have a comprehensive understanding of not only their own field, but also secondary knowledge of another broadly based, often interdisciplinary, field of study. A chemist might lend his or her expertise to a matter of legal or ethical importance. A curator might evaluate scientific and historical evidence about a painting's authenticity. A journalist might research a story involving science, medicine, and technology.

Integrated Learning Majors provide broad, interdisciplinary opportunities for students through valuable tools and knowledge in a variety of fields. This synergistic approach adds scholarly mettle to both the major and the interdisciplinary program, while exploiting their connective properties. For example, an undergraduate interested in chemistry could have an integrated learning program in forensic science. Or a student pursuing archeology could have an integrated learning major in ethics, with focus on social science research.

Majors the integrated learning major in Ethics will integrate with: management, television/radio/film, broadcast/newspaper journalism, engineering, computer science, biology, biomedical and chemical engineering, political science, public health, anthropology, psychology, sociology, and international relations, but other combinations are also possible.

First- and second-year courses contemplating the Integrated Learning Program in Ethics are advised to take one of the following courses: ANT 185, PHI 191/192/209, REL 252, or WGS/SOC 230.

To complete, 24 credits of approved ethics courses are required. Of those, at least 18 must be numbered 300 or higher. In addition, there are the following specific requirements:

- (1) two courses in contemporary and historical philosophical theory: PHI 391 and 393;
- (2) one course in ethical issues in social science research: SOC 319, ANT 442, ANT 445, or ANT 481;
- (3) one ethics course related to the student's primary major, as follows:

Primary Major Required Course:

Management - LPP 467 Management and Ethics
Journalism - COM 411 Social and Public Issues in Public Communications
Television/Radio/Film - PHI 293 Ethics in Entertainment Media
Political Science/International Relations - PSC/PHI 363 Ethics and International Relations
Biology, Biomedical and Chemical Engineering - REL 552/PHI 594 Bioethics PHI 400 may be substituted
Engineering, Computer Science - ECS 392 Ethical Aspects of Engineering and Computer Science
Environmental Engineering - PHI 394 Environmental Ethics
Public Health - HTW 415/615 Pre-health - PHI 593/REL 551 Ethics and the Health professions
Anthropology REL 552/PHI 594 Bioethics or PSC/PHI 363 Ethics and International Relations
Psychology - PSY 395 Abnormal Psychology, PSY 415 Introduction to Clinical Psychology, PSY 425 Internships in Clinical Psychology or PSY 445 Behavior Disorders in Children

- (4) PHI 495 Senior Capstone Project for Ethics

(5) three additional courses from the list below.

Lower-division courses

ANT 185 Global Encounters
PHI 191 Modern Moral Dilemmas (formerly Ethics and Value Theory)
PHI 192 Introduction to Moral Theory (proposed new course)
PHI 209 Introduction to Moral Philosophy (Honors)
PHI 293 Ethics and the Media
REL 252 Religious Ethics and Social Issues
WGS/SOC 230 Intergroup Dialogue

Upper-division courses

ANT 372 Issues in Intercultural Conflict and Communication
ANT 442 Methods in Archaeology
ANT 445 Public Policy and Archaeology
ANT/NAT 459/659 Contemporary Native North American Issues
ANT 475 Culture and Disputing
ANT 477 Culture and Conflict
ANT 481 Ethnographic Techniques
COM 411 Social and Public Issues in Public Communications
ECS 392 Ethical Aspects of Engineering and Computer Science
GEO 353 Geographies of Environmental Justice
HTW 415/615 Public Health Ethics (proposed new course)
LPP 467 Management and Ethics
PAF 351 Global Social Problems
PHI 391 History of Ethics
PHI 393 Contemporary Ethics
PHI 394 Environmental Ethics
PHI 400.5 Bioethics: Technology, Science, and Human Rights (Strasbourg)
PHI 417/PSC 382 Contemporary Political Philosophy
PHI 493 Contemporary Ethical Issues
PHI 550/PSC 400 Decision Theory
PHI 593/REL 551 Ethics and the Health Professions
PSC 354 Human Rights and Global Affairs
PSC/PHI 363 Ethics and International Relations
PSY 395 Abnormal Psychology
PSY 415 Introduction to Clinical Psychology
PSY 425 Internships in Clinical Psychology
PSY 445 Behavior Disorders in Children
REL 552/PHI 594 Bioethics
SOC 319 Qualitative Methods
SOC/WGS 364 Aging and Society
SOC 377 Class, Status, and Power
SOC/WGS 433 Race, Class, and Gender
SOC/NAT 441 Federal Indian Policy and Native American Identity
SOC/WGS 492 Work and Inequality

Other courses as approved by the director of the Ethics major.

European Literature Major

Contact: Kathryn Everly
Languages, Literatures, and Linguistics
329 H.B. Crouse
315-443-2042

Students seeking a B.A. in European literature take 36 credits in literature courses numbered above 250, selected from two or three of the following areas: French, German, Greek, Italian, Latin, Russian, and Spanish. Courses may be distributed to include 18 credits in each of two different literatures or 12 in each of three literatures. Up to 6 credits in the literature of each area may be taken in translation, but the total of courses in literature in translation may not exceed 12 credits.

Fine Arts Major

Amanda Eubanks Winkler, Chair
308 Bowne Hall
315-443-4185

Wayne Franits, Undergraduate Director
Suite 308 Bowne Hall
315-443-4184

Faculty Carol Babiracki, Theo Cateforis, Laurinda Dixon, Rodney Foster, Wayne Franits, Robert A. Hatfield, Jeehee Hong, Richard Ingersoll, Bette Kahler, Matilde M. Mateo, Alick McLean, Stephen Meyer, Jonathan Nelson, Gary M. Radke, Romita Ray, Sascha Scott, Eileen Stempel, Amanda Winkler

The fine arts major requires students to complete 30 credits in any departmental courses numbered above 299; music history courses numbered above 199

may count toward this major. Up to 12 credits of art and/or music studio work at any level may be included in the 30 credits. Students may petition to have up to 9 credits of appropriate courses in art history or music history taken outside the department (non-HOA-HOM courses) count towards the fine arts major.

Forensic Science Minor

Forensic Science
Michael Sponsler
Sponsler@syr.edu
315-443-4880

The Forensic and National Security Science Program (FNSS), supported by a college-wide research-based initiative in Forensic and National Security Science, applies broad interdisciplinary scientific research and theory to real-world legal and security issues. Current projects include a series of national conferences in Forensic Anthropology supported by the National Institute of Justice. Students can pursue an M.S. in Forensic Science (Laboratory and General Tracks) and an undergraduate Minor in Forensic Science.

Minor in Forensic Science

The minor in forensic science provides students with an understanding of the fundamental concepts and principles behind the application of scientific techniques to forensic investigations and to the criminal justice system. Recent advances in basic scientific research have had a rapid and dramatic impact in these fields and it is only through an understanding of these fundamental scientific concepts that the legal system may be effective in criminal investigations. A minor in forensic science offers a strong complement for students interested in criminal justice to major areas of study such as anthropology, biology, chemistry, physics, geology, psychology, engineering, pre-medicine, sociology, and pre professional degree programs. The minor in forensic science is open to all students at Syracuse University.

REQUIREMENTS

The requirements for the minor in forensic science at 18 credits that include:

CHE 113 Introduction to Forensic Science
FSC 406 Advanced Forensic Science

One course from among the following:

FSC 444 Forensic Chemical Analysis
PSY 252 Statistical Methods II
MAT 221 Elementary Probability and Statistics

And selection of 3 courses from among the following:

CHE 335 Chemical and Biochemical Analysis
FSC 444 Chemical Analysis*
PSY 474 Forensic Psychology
BIO 326 Genetics and Cell Biology
ANT 433 Human Skeletal Anatomy
ANT 300 Forensic Anthropology
ANT 434 Anthropology of Death
SOC 397 Criminology
SOC 334 Criminal Justice
FSC 440 Special Topics in Forensic Science

*FSC 444 cannot count for both requirements.

Integrated Learning Major In Forensic Science

Integrated Learning Major in Forensic Science

Contact: Prof. Michael Sponsler, 315 443-4880, sponsler@syr.edu

Professionals in technically demanding fields are commonly asked to apply their expertise to other seemingly unrelated disciplines. As a result, they must have a comprehensive understanding of not only their own field, but also secondary knowledge of another broadly based, often interdisciplinary, field of study. A chemist might lend his or her expertise to a matter of legal or ethical importance. A curator might evaluate scientific and historical evidence about a painting's authenticity. A journalist might research a story involving science, medicine, and technology.

Integrated Learning Majors provide broad, interdisciplinary opportunities for students through valuable tools and knowledge in a variety of fields. This synergistic approach adds scholarly mettle to both the major and the interdisciplinary program, while exploiting their connective properties. For example, an undergraduate interested in chemistry could have an integrated learning program in forensic science. Or a student pursuing archeology could have an integrated learning major in ethics, with focus on social science research.

Majors the integrated learning major in Forensic Science will integrate with: Anthropology, Biology, Biochemistry, Chemistry, Earth Sciences, Physics, Psychology, Sociology

Required Entry Courses: all are required Credits

CHE 113 Introduction to Forensic Science 4

FSC 406 Advanced Forensic Science 3
MAT 221 Elementary Probability and Statistics 3 (PSY 252 may be taken instead by PSY majors)

Connection Courses: must take the one designated for the primary major

ANT 433 Human Skeletal Anatomy (for ANT majors) 3
FSC 444 Forensic Chemical Analysis 4 (for BIO, BCM, CHE, EAR, PHY majors)
PSY 474 Forensic Psychology (for PSY majors) 3
SOC 334 Criminal Justice (for SOC majors) 3

Electives: three courses; may also take other connection courses as electives

ANT 400 Reading the Body 3
ANT 434 Anthropology of Death 3
BIO 326 Genetics and Cell Biology 3
BIO 462 Molecular Genetics 3
FSC 440 Special Topics in Advanced Forensic Science 3 (May take any number of times with different topics)
FSC 490 Independent Study 3
SOC 397 Criminology 3

Required Capstone

FSC 498 Capstone Seminar in Forensic Science 3

Total credits 25 or 26

This integrative Learning Major is intended to provide a broad exposure to the field of forensic science, increasing employability in a variety of careers that relate to forensic science. However, this major will not generally be sufficient to prepare students for forensic laboratory positions unless it is paired with a chemistry, biochemistry, or biology major.

French And Francophone Studies Major

Contact: tba
Languages, Literatures, and Linguistics
340 H.B. Crouse
315-443-2175.

Faculty: Beverly Allen, Hope Glidden, Jean Jonassaint, Amy S. Wyngaard

The B.A. in French and Francophone Studies enables students to become fluent in French and provides a broad knowledge of French and Francophone literature and culture. Lower-division courses emphasize the acquisition of language skills. Upper-division courses focus on developing language fluency and introducing students to a variety of critical approaches to analyzing French and Francophone literature and culture. FRE 202 is normally a prerequisite for advanced courses.

All students with any previous instruction in or experience with French are required to take a placement examination, available online, just click on 'Placement Exam'. This requirement applies to all students, regardless of class standing.

Students should consult the French and Francophone Studies major advisor as early as possible. Early consultation is particularly important for students with little or no preparation in French so they may be sure to satisfy prerequisites and requirements within four years.

STUDY ABROAD

To become fluent in French and gain insight into a Francophone country and its people, students are encouraged to study abroad for a semester or a year in Syracuse's program in Strasbourg, France. Students take fully accredited courses abroad in language, literature, fine arts, history, political science, and other approved areas of study. In Option I, courses are taught at the Syracuse University center in both English and French. In Option II, students study at the Institut International d'Etudes Françaises, part of the Université Marc Bloch. In Option III students are directly placed at the Université Marc Bloch and Université Robert Schuman. For further information, contact the French program coordinator or Syracuse University Abroad, 106 Walnut Place.

MAJOR REQUIREMENTS

The major in French and Francophone Studies consists of FRE 202 plus 27 upper-division credits taught in French. Students must complete at least 21 credits in upper-division FRE courses. At least 6 credits of 300-level FRE courses must be taken before entering any 400-level FRE course. At least 12 credits of 400-level FRE courses are required for the major. Up to 6 upper-division credits may be taken outside of the French and Francophone Studies program in courses on related French or Francophone topics, with prior approval of the major advisor.

French And Francophone Studies Minor

Contact: tba (315) 443-2175 340 HB Crouse

Faculty: Beverly Allen, Hope Glidden, Jean Jonassaint, Amy S. Wyngaard

MINOR IN FRENCH

A minor in French and Francophone Studies consists of a minimum of 19 credits including FRE 202 and 15 upper-division credits in FRE courses. At least 6 credits of 300-level FRE courses must be taken before entering any 400-level FRE course. At least 6 credits of 400-level FRE courses are required for the minor.

Geography Major

Contact: Jamie Winders
Director of Undergraduate Studies
125 Eggers Hall
315-443-5865

Faculty Jacob Bendix, Peng Gao, Matthew Huber, Susan W. Millar, Don Mitchell, Mark Monmonier, Anne E. Mosher, Alison Mountz, Thomas Perreault, Jane M. Read, David J. Robinson, Tod D. Rutherford, Farhana Sultana, John C. Western, Robert M. Wilson, Jamie L. Winders

Have you ever wondered why the world works the way it does? So do geographers, who study everything from economic, political, and cultural relations within and between countries, to distributions of life forms, to environmental practices of different groups of people – in brief, the spatial aspects of human life and the natural environment. Geographers excel in social theory, application, analysis, and intervention. At Syracuse University, geographers study globalization, environmental change and history, mapping and spatial techniques, immigration, urban and cultural politics, and social movements. As a major, geography gives you a range of skills AND a new perspective on the world. Because geographers research issues such as social justice, sustainable development, gender equity, and environmental change, geography provides tools not only to understand the world but also to change it!

Geography is easy to pair with another major, such as international relations or biology, or a degree from another college, such as the Newhouse School of Public Communications or Smith College of Engineering and Computer Science. After graduation, geography majors do very well. Students find jobs in environmental-impact analysis, emergency management, GIS and cartography, urban planning, non-profit organizations, community and international development, teaching and research, journalism, real-estate analysis, consulting, travel and ecotourism planning, and other fields. The Geography Department also offers research opportunities for undergraduates. Our majors work with the Syracuse Community Geographer to address community concerns through initiatives like the Syracuse Hunger Project. They also do fieldwork on landform responses to climate change, rainforest dynamics and environmental change in Latin America, the politics of public space and immigration, and the urban past of upstate New York. Finally, majors can take advantage of internships or study-abroad opportunities to obtain course credits while gaining valuable work and international experience.

MAJOR REQUIREMENTS

The program leading to a B.A. in geography requires at least 33 credits in geography, 21 of which must be at the upper division (i.e. 300-level or above).

Majors must take the following THREE lower-division courses:

GEO 103 America and the Global Environment
GEO 155 The Natural Environment
GEO 171 Human Geographies

Majors must take ONE of the following four techniques courses:

GEO 381 Cartographic Design
GEO 383 Geographic Information Systems
GEO 386 Quantitative Geographic Analysis
GEO 482 Environmental Remote Sensing

Majors must also complete the following capstone course:

GEO 491 Senior Seminar in Geography

Majors are encouraged to concentrate the remainder of their credits in one of five tracks:

Environmental Systems and Landscape Dynamics

GEO 215 Global Environmental Change
GEO 314 Hazardous Geographic Environments
GEO 316 River Environments
GEO 317 Mountain Environments
GEO 318 Tropical Environments
GEO 319 Cold Environments
GEO 326 Weather and Climate
GEO 555 Biogeography
GEO 583 Environmental GIS
plus, Appropriate Topics Courses (GEO 200, 300, 400, 500)

Nature, Society, Sustainability

GEO 203 Society and the Politics of Nature
GEO 215 Global Environmental Change
GEO 300 Environment and Development in the Global South
GEO 300 Geographies of Oil
GEO 314 Hazardous Geographic Environments
GEO 316 River Environments
GEO 317 Mountain Environments
GEO 318 Tropical Environments

GEO 319 Cold Environments
GEO 353 Environmental Justice
GEO 354 American Environmental History and Geography
GEO 356 Environmental Ideas and Policy
GEO 400 Energy, History and Society
GEO 400 Food: A Critical Geography
GEO 558 Development and Sustainability
plus, Appropriate Topics Courses (GEO 200, 300, 400, 500)

Globalization, Development and Citizenship

GEO 105 World Regional Geography
GEO 272 World Cultures
GEO 273 World Political Economy
GEO 300 Environment and Development in the Global South
GEO 300 Geographies of Oil
GEO 325 Colonialism in Latin America
GEO 331 European Union
GEO 361 Global Economic Geography
GEO 367 Gendered Geographies of Globalization and Development
GEO 372 Political Geography
GEO 388 Geographic Information & Society
GEO 400 Energy, History and Society
GEO 400 Geographies of Migration and Mobility
GEO 440 Race and Space
GEO 463 Geographies of Homelessness
GEO 500 Sexuality and Space
GEO 558 Development and Sustainability
GEO 563 The Urban Condition: Life and Struggle in the Contested City
GEO 564 Urban Historical Geography
GEO 573 Geography of Capital
GEO 595 Geography of the Internet
plus, Appropriate Topics Courses (GEO 200, 300, 400, 500)

Culture, Justice, and Urban Space

GEO 219 American Diversity & Unity (honors)
GEO 272 World Cultures
GEO 273 World Political Economy
GEO 311 New North Americas
GEO 313 United States
GEO 353 Environmental Justice
GEO 362 The European City
GEO 363 Cities of North America
GEO 367 Gendered Geographies of Globalization and Development
GEO 372 Political Geography
GEO 400 Food: A Critical Geography
GEO 440 Race and Space
GEO 463 Geographies of Homelessness
GEO 500 Borders in Syracuse
GEO 500 Geography of Memory
GEO 500 Space and Sexuality
GEO 558 Sustainable Development
GEO 563 The Urban Condition: Life and Struggle in the Contested City
GEO 564 Urban Historical Geography
GEO 572 Landscape Interpretation
GEO 573 Geography of Capital
GEO 576 Gender, Space, & Place
plus, Appropriate Topics Courses (GEO 200, 300, 400, 500)

Geographic Information Science: Analysis, Modeling, and Applications

GEO 381 Cartographic Design
GEO 383 Geographic Information Systems
GEO 386 Quantitative Geographic Analysis
GEO 388 Geographic Information and Society
GEO 482 Environmental Remote Sensing
GEO 500 GIS and Hydrological Modeling
GEO 583 Environmental GIS
GEO 595 Geography of the Internet
plus, Appropriate Topics Courses (GEO 200, 300, 400, 500)

DEGREE WITH DISTINCTION

Majors who meet certain academic requirements have the opportunity to graduate with distinction. To do so, students must meet minimum GPA requirements, carry out original research under the supervision of a geography professor, and write a Senior Thesis based on that research. This honor recognizes a student's achievement of academic excellence and is acknowledged on the diploma.

Geography Minor

Jamie Winders, Director of Undergraduate Studies

125 Eggers Hall
315-443-5865

Geographers are concerned with social, spatial, and environmental processes in human and natural systems, with a focus on critical theory, practical application, analysis, and interventions. Of central importance to the study of geography are relations between diverse social groups, as well as between people and their natural and human-built environments. Coursework spans the social and natural sciences, and includes cartography, geographic information systems (GIS) and other technologies for analyzing spatial information. Many geography students combine majors and minors in other fields to prepare themselves for careers in environmental analysis and resource management, urban and regional development, international relations, conflict resolution, public service, and more.

MINOR IN GEOGRAPHY

To complete a minor in geography, students must complete 18 credits in geography courses, of which a minimum of 12 credits must be upper division (i.e. 300-level or above).

Geography Secondary Teacher Preparation

Combined Bachelor's/Master's Degrees - Secondary Teacher Preparation Programs

School of Education contact: Marie Sarno, Teaching and Leadership Programs, 138 Huntington Hall. mrsarno@sy.edu

This combined degree option, offered by the College of Arts and Sciences and the School of Education meets the academic requirements for a New York Teaching certification for grades 7-12 in social studies. It is an alternative to the existing undergraduate Arts and Sciences/Education dual programs in these areas, and an option that often takes less time and fewer credits than earning the entire master's degree in education after completion of a general Arts and Sciences degree.

The combined bachelor's/master's teacher preparation programs were designed to meet the needs of Arts and Sciences undergraduates who, because of a later decision to become a teacher, would need to add a semester or more to their undergraduate study to complete the existing undergraduate Arts and Sciences/Education program. It also serves those who want or need more flexibility in their undergraduate program than the dual undergraduate degree allows.

Both the Arts and Sciences undergraduate degree with a major related to the subject to be taught, and the School of Education master's degree are conferred at the same time, after all requirements are met – typically at the end of 5 years. Students begin taking education courses as undergraduates, including some in the fourth year that are taken for graduate credit, and apply to become graduate students for their last two semesters. Some summer study (not necessarily at SU) may be required.

The combined program has a two-stage admission process. The first stage involves meeting with the School of Education contact as early as possible to develop a plan, and, if a decision to pursue the program is made, completing a form signed by Education and a new declaration of program of study form in Arts and Science to declare the Arts and Sciences program with “Teacher Preparation/5 year” appended to the title Geography. The second admission stage involves an application to graduate school. Each admission stage requires a 3.0 cumulative GPA and a 3.0 GPA in the courses from the subject to be taught. The second stage also requires successful performance in the undergraduate education courses.

The choices of Arts and Sciences majors, and the course requirements for the Arts and Sciences major, the Liberal Arts Core, and other requirements related to the major are the same for these combined programs as those for students completing the dual enrollment undergraduate Arts and Sciences/Education program. These details about specific adjustments necessary to the Liberal Arts Core and to Arts and Sciences major may be found in the section describing Dual Arts and Sciences/ Education Programs.

Because of the specific course requirements and sequencing of courses, it is important that students interested in one of these programs meet with the Education contact as soon as possible to develop a plan. EDU 204, the first education course, must be taken no later than spring of the junior year.

German Minor

Gerry Greenberg
441 Hall of Languages
315-443-1414

MINOR IN GERMAN

The German Minor requires at least 18 credits including GER 202; at least 12 of the credits have to be taken on the 300 level and above.

German Language, Literature, And Culture Major

Contact: Gerry Greenberg
441 Hall of Languages
315-443-1414

Faculty Gerald R. Greenberg, Karina von Tipelskirch

This B.A. program offers instruction in German language, literature, and culture. GER 101,102 (or the equivalent) are prerequisites for GER 201 and for advanced-level courses. Upper-level courses provide in-depth study of German literature and cultural institutions and further development of linguistic skills.

All students with more than one year of high school German are required to take a placement examination. This examination is given immediately before registration each semester. The requirement applies to all new Syracuse University students regardless of class standing or study elsewhere.

Students should consult the program coordinator of German about their programs as early as possible. Early consultation is particularly important for

students with little or no preparation in German so they may be sure to satisfy prerequisites and requirements within four years.

STUDY ABROAD

To become fluent in the language and to acquire direct experience with life in the countries where German is spoken, students are encouraged to study abroad for a semester or a year. Students choosing German as a major are encouraged to take advantage of SU Abroad World Partner options. For further information, contact the German program coordinator or Syracuse University Abroad, 106 Walnut Place (suabroad.syr.edu).

MAJOR REQUIREMENTS

The major in German consists of GER 202 plus eight upper-division courses taught in the target language.

Global Political Economy Minor

Francine D'Amico
225 Eggers Hall
315-443-8215
fjdamico@syr.edu

The minor in Global Political Economy is an interdisciplinary program in the social sciences designed to help students explore all the dimensions and implications of globalization in contemporary international relations. The minor is administered by the International Relations Program and is open to all Syracuse University students in good academic standing.

REQUIREMENTS

The GPE minor consists of six (6) courses, eighteen (18) credits. These include two required introductory-level courses, PSC 124 International Relations and GEO 273 World Political Economy, plus 12 credits in courses numbered 300 or above, which must include one course in Economics, one in Geography, and one in Political Science or International Relations. Other advanced undergraduate courses (300-level or higher) designated in the International Political Economy (IPE) topic area of International Relations that are global (not national or regional) in scope may be accepted toward completion of the minor upon approval by the Director of Undergraduate Studies in International Relations.

ANT/GEO/WGS 367 Gender in a Globalizing World
ANT 417 Economic Anthropology
ANT 463 Global Health
ANT 479 Anthropology of Global Transformations
ECN 365 The World Economy (prerequisite: ECN 101, 102, or 203)
ECN 465 International Trade Theory & Policy (prerequisite: ECN 301 or 311)
ECN 566 International Macroeconomics and Finance (prerequisite: ECN 302)
GEO 353 Geographies of Environmental Justice
GEO 361/561 Global Economic Geography
GEO/ANT/WGS 367 Gender in a Globalizing World
GEO 558 Development & Sustainability
GEO 573 Geography of Capital
IRP 404 Global Political Economy Issues (IR in Washington, DC)
IRP 471 Global Internship (IR in Washington, DC)
PSC/AAS 346 Comparative Third World Politics
PSC 355 International Political Economy
PSC/AAS 365 International Political Economy of the Third World
PSC 369 Global Migration
SOC 421 Population Issues
SOC 434 Globalization & Social Change

History Major

Contact J. Scott Strickland
Director of Undergraduate Studies
145 Eggers Hall
315-443-5875 or 9926

Faculty Subho Basu, David H. Bennett, Susan Branson, Craig B. Champion, Andrew W. Cohen, Albrecht Diem, Michael R. Ebner, Carol Faulkner, Paul M. Hagenloh, Samantha Kahn Herrick, Amy Kallander, George Kallander, Ralph Ketcham, Norman A. Kutcher, Chris Kyle, Elisabeth D. Lasch-Quinn, Andrew N. Lipman, Laurie Marhoefer, Gladys McCormick, Dennis Romano, Martin S. Shanguhya, James Roger Sharp, John Scott Strickland, Junko Takeda, Margaret Susan Thompson

Understanding history—the record of what people have thought, said, and done—is essential in understanding the world of today. Students explore not only events of the past, but also how they were shaped by such factors as religion, economics, and geography and how these factors influence our own lives. The curriculum, which leads to a B.A. in history, also provides rigorous training in research, analysis, and writing.

Students majoring in history are encouraged to take a foreign language.

MAJOR REQUIREMENTS

The major requires 30 credits in history, 21 of which are in junior- and senior-level courses numbered 300 or higher. Students take six credits in one of the following basic survey sequences: HST 101,102 (U.S. history survey); HST 111,112 (modern Europe survey); HST 210, 211,212 (ancient/medieval/renaissance survey, any two of the three).
Of the 21 upper-division credits, 3 must be in HST 401 Senior Seminar.

Distribution requirement The history department divides its course offerings into three broad categories: American, European, and non-Western. Students must take at least 3 credits (1 course) in each of these three areas.

Concentration requirement Each student must complete a concentration, consisting of 15 credits (5 courses), in one of the three distribution areas. Lower-division survey courses and HST 401 can count toward this total. It is strongly encouraged, but not required, that the HST 401 fall within the student's area of concentration.

History Minor

Contact: J. Scott Strickland
Director of Undergraduate Studies
145 Eggers Hall
315-443-5875 or 9926

Understanding history—the record of what people have thought, said, and done—is essential in understanding the world of today. Students explore not only events of the past, but also how they were shaped by such factors as religion, economics, and geography and how these factors influence our own lives. The curriculum, which leads to a B.A. in history, also provides rigorous training in research, analysis, and writing.

MINOR IN HISTORY

To complete a minor in history, students take 18 credits of history, including: 6 credits in lower-division and 6 credits in upper-division courses (300 or higher), all in a single general area of history (American, European, or non-Western civilization). Minors must also take one additional subject area upper-division course and HST 401.

History Secondary Teacher Preparation

Combined Bachelor's/Master's Degrees - Secondary Teacher Preparation Programs

School of Education contact: Marie Sarno, Teaching and Leadership Programs, 138 Huntington Hall. mrsarno@syr.edu

This combined degree option, offered by the College of Arts and Sciences and the School of Education meets the academic requirements for a New York Teaching certification for grades 7-12 in social studies. It is an alternative to the existing undergraduate Arts and Sciences/Education dual programs in these areas, and an option that often takes less time and fewer credits than earning the entire master's degree in education after completion of a general Arts and Sciences degree.

The combined bachelor's/master's teacher preparation programs were designed to meet the needs of Arts and Sciences undergraduates who, because of a later decision to become a teacher, would need to add a semester or more to their undergraduate study to complete the existing undergraduate Arts and Sciences/Education program. It also serves those who want or need more flexibility in their undergraduate program than the dual undergraduate degree allows.

Both the Arts and Sciences undergraduate degree with a major related to the subject to be taught, and the School of Education master's degree are conferred at the same time, after all requirements are met – typically at the end of 5 years. Students begin taking education courses as undergraduates, including some in the fourth year that are taken for graduate credit, and apply to become graduate students for their last two semesters. Some summer study (not necessarily at SU) may be required.

The combined program has a two-stage admission process. The first stage involves meeting with the School of Education contact as early as possible to develop a plan, and, if a decision to pursue the program is made, completing a form signed by Education and a new declaration of program of study form in Arts and Science to declare the Arts and Sciences program with “Teacher Preparation/5 year” appended to the title (e.g., “History(TchrPrep/5yr)” instead of “History”). The second admission stage involves an application to graduate school. Each admission stage requires a 3.0 cumulative GPA and a 3.0 GPA in the courses from the subject to be taught. The second stage also requires successful performance in the undergraduate education courses.

The choices of Arts and Sciences majors, and the course requirements for the Arts and Sciences major, the Liberal Arts Core, and other requirements related to the major are the same for these combined programs as those for students completing the dual enrollment undergraduate Arts and Sciences/Education program. These details about specific adjustments necessary to the Liberal Arts Core and to Arts and Sciences major may be found in the section describing Dual Arts and Sciences/ Education Programs.

Because of the specific course requirements and sequencing of courses, it is important that students interested in one of these programs meet with the Education contact as soon as possible to develop a plan. EDU 204, the first education course, must be taken no later than spring of the junior year.

History Of Architecture Major

Amanda Eubanks Winkler, Chair
308 Bowne Hall
315-443-4185

Wayne Franits, Advisor
Department of Art and Music Histories
Suite 308 Bowne Hall
315-443-4184.

Faculty Jean-François Bédard, Wayne Franits, Susan Henderson, Jonathan Massey

MAJOR REQUIREMENTS

The student seeking a B.A. in the history of architecture is required to complete 30 credits of upper-division courses in art history, at least 18 of which are in courses in the history of architecture. No credit for studio courses in art or music may be used as part of this major. The following courses taught by the School of Architecture form the basis for the major.

HOA 322/ ARC 335 Renaissance Architecture in Italy (1400-1520)
HOA 323/ARC 332 16th Century Italian Architecture
HOA 324/ ARC 336 Italian 17th-Century Architecture
HOA 374/ARC 337 American Architecture, Settlement to 1860
HOA 375/ARC 338 American Architecture, 1860-World War I
HOA 389 /ARC 435 Islamic Architecture
HOA 419/ ARC 432 The City in Architectural History
HOA 439/ ARC 433 French Architecture, 16th and 17th Centuries
HOA 479/ ARC 431 Early Modern Architecture
HOA 577/ ARC 566 Introduction to Preservation

Architectural History

HOA 105,106 or ARC 133,134 are prerequisites for the courses listed below, but do not count toward the minor.

HOA 311 Italian Medieval Art
HOA 312 Romanesque Art
HOA 313 Gothic Art
HOA 322/ARC 335 Renaissance Architecture in Italy 1400-1520
HOA 323/ARC 332 Sixteenth Century Italian Architecture
HOA 324/ARC 336 Italian 17th Century Architecture
HOA 380/ARC 337 American Architecture: Settlement to 1860
HOA 375/ARC 338 American Architecture: 1860-World War I
HOA 439/ARC 433 French Architecture, 16th, and 17th Centuries
HOA 479/ARC 431 Early Modern Architecture
HOA 419/ARC 432 The City in Architectural History
HOA 577/ARC 566 Introduction to Preservation

History Of Architecture Minor

Amanda Eubanks Winkler, Chair
308 Bowne Hall
315-443-4185

Contact: Wayne Franits, Advisor
Department of Art and Music Histories
Suite 308 Bowne Hall
315-443-4184.

Faculty Jean-François Bédard, Wayne Franits, Susan Henderson, Jonathan Massey

Requirements

The minor in the history of architecture requires 18 credits of coursework. These courses must be upper-level HOA courses (300 level and above) in the history of architecture, drawn from the list of departmental offerings below. However, students may petition to have up to 6 credits of selected topics courses in the history of architecture (HOA 300 or HOA 400) count toward the minor. In addition, students may petition to have up to 6 credits of history of architecture courses taken outside the department credited toward the minor.

The following classes are prerequisites but do not count towards the minor:

HOA 105 Arts and Ideas I
HOA 106 Arts and Ideas II
or
ARC 133 Introduction to the History of Architecture I
ARC 134 Introduction to the History of Architecture II

Classes that do count towards the minor:

HOA 302 Greek Art and Architecture
HOA 311 Italian Medieval Art
HOA 312 Romanesque Art
HOA 313 Gothic Art
HOA 322/ARC 335 Early Renaissance Architecture in Italy 1400-1520
HOA 323/ARC 332 Sixteenth Century Italian Architecture
HOA 324/ARC 336 Italian 17th Century Architecture
HOA 380/ARC 337 American Architecture: Settlement to 1860
HOA 375/ARC 338 American Architecture 1860 to World War I
HOA 389/ARC 435 Islamic Architecture
HOA 419/ARC 432 The City in Architectural History
HOA 439/ARC 433 French Architecture: 16th and 17th Centuries

International Relations Major

Contact: Francine D'Amico
International Relations Office
225 Eggers Hall
315-443-2306
fjdamico@maxwell.syr.edu.

Faculty Douglas V. Armstrong, Elizabeth Ashby, Michael Barkun, Hossein Bashiriyeh, Subho Basu, Kenneth Baynes, David H. Bennett, James P. Bennett, G. Matthew Bonham, Mehrzad Boroujerdi, Stuart Scott Brown, Hans C. Buechler, John S. Burdick, Horace Campbell, Linda Carty, A.H. Peter Castro, Matthew R. Cleary, Goodwin Cooke, Francine D'Amico, David Kwame Dixon, Gavan Duffy, Donald H. Dutkowsky, Michael R. Ebner, Colin Elman, Miriam Fendius Elman, Margarita Estévez-Abe, Jerry Evensky, Carol Fadda-Conrey, Ann Grodzins Gold, Paul M. Hagenloh, Jonathan K. Hanson, Madonna Harrington Meyer, Margaret Hermann, Matthew Huber, Seth Jolly, George Kallander, Tazim R. Kassam, William F. Kelleher Jr., Audie Klotz, Norman A. Kutcher, Mary E. Lovely, Amy Lutz, Yingyi Ma, William P. Mangin, Frederick D. Marquardt, Janis A. Mayes, Allan C. Mazur, Gladys McCormick, John G. McPeak, Don Mitchell, Devashish Mitra, Glyn Morgan, Alison Mountz, Micere Githae Mugo, Terrell A. Northrup, Inge O'Connor, Deborah Pellow, Thomas Perreault, Donald Planty, Jane M. Read, J. David Richardson, Alicia Rios, David J. Robinson, Ross Rubenstein, Mark Rupert, S.N. Sangpam, Hans Peter Schmitz, Michael Schneider, Maureen Trudelle Schwarz, Farhana Sultana, Junko Takeda, Brian D. Taylor, Stuart J. Thorson, John Marshall Townsend, Cecilia Van Hollen, Susan S. Wadley, Hongying Wang, Michael Wasylenko, John C. Western, Jamie L. Winders

The undergraduate major in international relations is designed to provide students with the analytic, cultural, and linguistic skills needed to understand major developments in contemporary international affairs, to function effectively in a global environment, and to prepare for further academic or professional study and international career opportunities. This multidisciplinary program provides students with analytic tools and approaches from disciplines—anthropology, economics, geography, history, political science, and sociology—to explore contemporary issues and to conceptualize global citizenship. For additional information, please consult our web page at www.maxwell.syr.edu/ir/irmain.asp.

MAJOR REQUIREMENTS

Requirements for the major include either 33 or 36 credits in international relations plus demonstrated proficiency in a language other than English. Credits for internships in international relations, including IRP 471 Global Internship in Washington, D.C., and others approved by the director of undergraduate studies, may be counted toward the major. Each major must complete:

1. PSC 124 International Relations or PSC 139 International Relations (Honors) (3 credits);
2. ECN 203 Economic Ideas and Issues (3 credits) or ECN 101 Microeconomics and ECN 102 Macroeconomics (6 credits); and
3. (3) MAX 132 Global Community or ANT 185 Global Encounters (3 credits).

For admission to the undergraduate major in International Relations, students must achieve a grade of 'B' or better in at least one (1) of the three introductory courses required for the major.

Of the 33 or 36 credits, 24 credits must be in courses numbered 300 or above. Eighteen (18) of these credits are devoted to two concentrations within the major: 3 courses/9 credits are taken in a geographic concentration in either Africa, Asia, Europe, Latin America, or the Middle East, and 3 courses/9 credits are taken in a topic concentration in either Intercultural Communication (ICC), International Security and Diplomacy (ISD), International Law and Organizations (ILO), or International Political Economy (IPE).

The remaining 6 credits must include one upper-division elective on any international topic or geographic area and a 400-level capstone experience. This capstone may be a senior seminar, an internship abroad or in our Maxwell-in-Washington International Relations Seminar, an independent study, or honors project on an appropriately international theme, as approved by the director of undergraduate studies in International Relations.

In addition to the 33 or 36 credits required in courses in international relations, each student major must demonstrate proficiency in a contemporary spoken language other than English. It is encouraged that this language be spoken in the geographic area chosen for concentration. Proficiency must be demonstrated either by placement examination or by coursework to at least the equivalent of Course IV (202). We strongly encourage, however, that students continue to pursue language study to a level of full literacy and fluency.

ADDITIONAL PROGRAM OPPORTUNITIES

International relations majors are also expected to study abroad during their undergraduate program. Syracuse University Abroad (SU Abroad) offers a rich variety of courses that can be applied to the IR major requirements.

In addition, participation in the Maxwell-in-Washington International Relations Semester, a 15-credit seminar and internship program, is highly recommended. For more information on this program, contact the Global Programs coordinator in 225 Eggers Hall or call 315-443-5339.

Co-curricular activities, such as the International Relations Learning Community, a residential program for students new to Syracuse University, as well as our International Relations Honor Society Sigma Iota Rho, Model United Nations, colloquia, and related community activities, are available.

International Relations Secondary Teacher Preparation Program

Combined Bachelor's/Master's Degrees - Secondary Teacher Preparation Programs

School of Education contact: Marie Sarno, Teaching and Leadership Programs, 138 Huntington Hall. mrsarno@syr.edu

This combined degree option, offered by the College of Arts and Sciences and the School of Education meets the academic requirements for a New York Teaching certification for grades 7-12 in social studies. It is an alternative to the existing undergraduate Arts and Sciences/Education dual programs in these areas, and an option that often takes less time and fewer credits than earning the entire master's degree in education after completion of a general Arts and

Sciences degree.

The combined bachelor's/master's teacher preparation programs were designed to meet the needs of Arts and Sciences undergraduates who, because of a later decision to become a teacher, would need to add a semester or more to their undergraduate study to complete the existing undergraduate Arts and Sciences/Education program. It also serves those who want or need more flexibility in their undergraduate program than the dual undergraduate degree allows.

Both the Arts and Sciences undergraduate degree with a major related to the subject to be taught, and the School of Education master's degree are conferred at the same time, after all requirements are met – typically at the end of 5 years. Students begin taking education courses as undergraduates, including some in the fourth year that are taken for graduate credit, and apply to become graduate students for their last two semesters. Some summer study (not necessarily at SU) may be required.

The combined program has a two-stage admission process. The first stage involves meeting with the School of Education contact as early as possible to develop a plan, and, if a decision to pursue the program is made, completing a form signed by Education and a new declaration of program of study form in Arts and Science to declare the Arts and Sciences program with “Teacher Preparation/5 year” appended to the title International Relations. The second admission stage involves an application to graduate school. Each admission stage requires a 3.0 cumulative GPA and a 3.0 GPA in the courses from the subject to be taught. The second stage also requires successful performance in the undergraduate education courses.

The choices of Arts and Sciences majors, and the course requirements for the Arts and Sciences major, the Liberal Arts Core, and other requirements related to the major are the same for these combined programs as those for students completing the dual enrollment undergraduate Arts and Sciences/Education program. These details about specific adjustments necessary to the Liberal Arts Core and to Arts and Sciences major may be found in the section describing Dual Arts and Sciences/ Education Programs.

Because of the specific course requirements and sequencing of courses, it is important that students interested in one of these programs meet with the Education contact as soon as possible to develop a plan. EDU 204, the first education course, must be taken no later than spring of the junior year.

Italian Minor

Italian Language, Literature, and Culture
Stefano Giannini
309 H.B. Crouse
315-443-2136.

MINOR IN ITALIAN

A minor in Italian consists of a minimum of 18 credits including ITA 202 and 15 other credits in upper-division courses. Twelve of the 15 credits in upper-division courses are in courses taught in Italian; 3 of the credits in upper-division courses may be taught in Italian, in English, or in English with readings in Italian.* A LIT course at the 200 level taught in English by Italian Program faculty may be substituted for an upper-division course taught in English to satisfy the minor requirements.

*As approved by the program advisor.

Italian Language, Literature And Culture

Contact: Stefano Giannini
Languages, Literatures, and Linguistics
309 H.B. Crouse
315-443-2136.

Faculty Beverly Allen, Stefano Giannini

The major in Italian language, literature, and culture, which leads to a B.A. degree, provides students with a mastery of the language and a broad knowledge of Italian literature and culture. Lower-division courses teach the basic skills needed to read, write, and speak Italian. After the second year, students are trained to develop an oral and written command of the language. Literature and film studies cover areas of studies from Dante and the Renaissance to modern and contemporary periods.

All students with more than one year of high school Italian are required to take a placement examination, given immediately before registration each semester. The requirement applies to all students regardless of class standing or previous study. Prospective majors should consult the Italian program coordinator as early as possible. Early consultation is particularly important for students with little or no preparation in Italian so they may be sure to satisfy prerequisites and requirements within four years.

STUDY ABROAD

Students studying Italian are strongly encouraged to spend a semester or a year abroad. Syracuse University's program in Florence, Italy, enables students to take fully accredited classes in Italian language and literature, fine arts, history, political science, and a number of electives outside arts and sciences. For students fluent in Italian, placements are available at the *Centro per Stranieri* at the University of Florence. For further information, contact the Italian program coordinator or Syracuse University Abroad, 106 Walnut Place.

MAJOR REQUIREMENTS

A major in Italian consists of ITA 202 plus 24 credits in upper-division courses. Eighteen of the credits in upper-division courses are from courses taught in Italian; 6 of the credits may be in upper-division courses taught in Italian, in English, or in English with readings in Italian as approved by the program advisor. LIT courses at the 200 level taught in English by Italian language faculty may be substituted for upper-division courses taught in English to satisfy the major requirements.

*As approved by the program advisor.

Judaic Studies Minor

Judaic Studies
Harvey Teres, Director
310 Tolley Humanities Building
315-443-8093

This interdisciplinary minor explores Jewish History, culture, and religion. Faculty research and teaching focus on the Hebrew Bible, Hebrew and Yiddish fiction, European and American literature, Jews in modern Europe, the arts, modern Judaic thought and culture, and Israel studies. Students may study these and other aspects of Judaism and Jewish Life. The Judaic Studies program benefits from a wide variety of resources, such as the Holstein Family and the Harrison G. Levin Endowments, which support field trips; the Arlene and R. Raymond Rothman Endowment, which sponsors visiting lecturers in Judaic Studies; and the annual B.G. Rudolph Lectureship in Judaic Studies, which brings distinguished speakers to campus. Graduate students are eligible to apply for the Benjamin Fellowship and all students may submit Holocaust-related papers to the undergraduate and graduate Kalina Prize competition.

Requirements:

The minor requires 21 credits in Judaic studies, at least 12 in courses numbered 300 or above. Students take a 12 credit core, which includes two courses selected from:

JSP/REL 114: The Bible
JSP/REL 131: Great Jewish Writers
JSP/REL 135: Judaism
JSP/REL 215: The Hebrew Bible
JSP/REL 231: Judaic Literature

Students interested in pursuing a minor in Judaic Studies must complete a total of 21 credits as follows:

Either a history or a sociology course numbered 300 or above and concerned with Jewish history, culture or religion and/or approved by the program director; and the Judaic Studies Senior Seminar (JSP/REL 439)

An additional 9 credits are required in related courses chosen in consultation with the director of the program. Two years of Hebrew are recommended but not required. Coursework in Hebrew 201, 202, 301 or 303 may be counted in the 9 credits

JSP/REL 300: Selected Topics
JSP/REL 307: The Temple and the Dead Sea
JSP/REL 311: The Bible as Literature
JSP/REL 331: European & American Judaic Literature
JSP/REL 333: Yiddish Literature in Translation
JSP/REL 334: Modern Judaism
JSP/REL 335: Israeli Literature & Culture
JSP/REL 337: Shoah: Responding to the Holocaust
JSP/REL 400: Selected Topics
JSP/REL 435: Modern Judaic Thought
JSP/REL 490: Independent Study
JSP/REL 500: Selected Topics
JSP/REL 516: The Torah/Pentateuch
HEB 201: Hebrew III
HEB 202: Hebrew IV
HEB 301: Advanced Hebrew
HEB 303: Advanced Hebrew

Latino-Latin American Studies Minor

Latino-Latin American Studies
441 Hall of Languages
315-443-1414

REQUIREMENTS

The minor in Latin American Studies requires a total of 18 credits from the list above; 12 credits are in courses numbered above 299. For Spanish language majors and students whose first language is Spanish, at least 9 credits must be in non-language courses. Students intending to declare a minor in Latin American Studies are strongly advised to contact the Director of the Latino-Latin American Program to discuss the selection of suitable courses and other issues.

Declaring a minor

Students intending to declare a minor in Latin American Studies contact the Director of the Latino-Latin American Program to discuss the selection of suitable courses and other issues.

Courses should be selected from the following list in consultation with the advisor. Additional courses in anthropology, geography, and Spanish are recommended.

Anthropology

LAS 318/ANT 322 South American Cultures
LAS/ANT 523 Culture Change in Latin America English

English

LAS 200/ETS 230 Ethnic Literary Traditions
LAS 300/ETS 350 Latino Fiction
ETS 315 U.S. Literature of the Caribbean Diaspora

Geography

LAS/GEO 321 Latin American Development: Spatial Aspects
LAS/GEO 325 Colonialism in Latin America
LAS/GEO 520 Research on Latin America

History

LAS/HST 322 Colonial Latin America
LAS 313/HST 323 Modern Latin America
LAS/HST 324 Recent Latin American History
LAS/HST/WGS 371 Gender in Latin American History

Political Science

LAS/PSC 333 Comparative Government: Latin America

Spanish

LAS 300/SPA 301 Approaches to Reading Texts
LAS 302/SPA 322 Introduction to Latin American Literature
LAS/SPA 433 Business Spanish
LAS/SPA 461 Nobel Prize Writers of the Spanish Speaking World
LAS/SPA 463 Contemporary Latin American Theater
LAS/SPA 465 Literature and Popular Culture
LAS/SPA 467 Film and Literature
LAS/SPA 471 Contemporary Latin American Literature
LAS/SPA/WGS 475 Women, Myth, and Nation in Latin American Literature
LAS/SPA 479 Perspectives on Mexico and Central America:

Literature, Art, Film

LAS/SPA 481 The Literature of Latinos in the United States
LAS/SPA 489 Hispanic Caribbean Narrative and Film
LAS/SPA 493 Afro-Hispanic Topics in the Caribbean Literature
LAS/SPA 495 Marginal Cultures in Hispanic Caribbean Literature
LAS/SPA 497 Text and Context in Cuban Revolutionary Literature

Latino-Latin American Studies Major

Contact: Susan S. Wadley
441 Hall of Languages
315-443-1414

The Latino-Latin American Studies program of the College of Arts and Sciences leads to the B.A. degree and embraces an interdisciplinary approach to culture, development, resources, history, and societies of these critical regions and their peoples. This recently modified and innovative program is designed to promote awareness and understanding of the many issues faced by the Latino and Latin American peoples of the western hemisphere. A wide range of faculty from several departments and with complementary perspectives provide a stimulating entry into the interrelated worlds of Latino America and Latin America.

MAJOR REQUIREMENTS

Students are required to take 30 credits of coursework, 24 of which are in courses numbered above 299. Courses should be selected from the following list in consultation with the advisor. Additional courses in anthropology, geography, and Spanish are recommended.

Anthropology

LAS 318/ANT 322 South American Cultures
LAS/ANT 523 Culture Change in Latin America English

Political Science

LAS/PSC 333 Comparative Government: Latin America

English

LAS 200/ETS 230 Ethnic Literary Traditions
LAS 300/ETS 350 Latino Fiction
ETS 315 U.S. Literature of the Caribbean Diaspora

Geography

LAS/GEO 321 Latin American Development: Spatial Aspects

LAS/GEO 325 Colonialism in Latin America
LAS/GEO 520 Research on Latin America

History

LAS/HST 322 Colonial Latin America
LAS 313/HST 323 Modern Latin America
LAS/HST 324 Recent Latin American History
LAS/HST/WGS 371 Gender in Latin American History

Spanish

LAS 300/SPA 301 Approaches to Reading Texts
LAS 302/SPA 322 Introduction to Latin American Literature
LAS/SPA 433 Business Spanish
LAS/SPA 461 Nobel Prize Writers of the Spanish Speaking World
LAS/SPA 463 Contemporary Latin American Theater
LAS/SPA 465 Literature and Popular Culture
LAS/SPA 467 Film and Literature
LAS/SPA 471 Contemporary Latin American Literature
LAS/SPA/WGS 475 Women, Myth, and Nation in Latin American Literature
LAS/SPA 479 Perspectives on Mexico and Central America: Literature, Art, Film
LAS/SPA 481 The Literature of Latinos in the United States
LAS/SPA 489 Hispanic Caribbean Narrative and Film
LAS/SPA 493 Afro-Hispanic Topics in the Caribbean Literature
LAS/SPA 495 Marginal Cultures in Hispanic Caribbean Literature
LAS/SPA 497 Text and Context in Cuban Revolutionary Literature

Latino-Latin American Studies Secondary Teacher Preparation Program

Combined Bachelor's/Master's Degrees - Secondary Teacher Preparation Programs

School of Education contact: Marie Sarno, Teaching and Leadership Programs, 138 Huntington Hall. mrsarno@syr.edu

This combined degree option, offered by the College of Arts and Sciences and the School of Education meets the academic requirements for a New York Teaching certification for grades 7-12 in social studies. It is an alternative to the existing undergraduate Arts and Sciences/Education dual programs in these areas, and an option that often takes less time and fewer credits than earning the entire master's degree in education after completion of a general Arts and Sciences degree.

The combined bachelor's/master's teacher preparation programs were designed to meet the needs of Arts and Sciences undergraduates who, because of a later decision to become a teacher, would need to add a semester or more to their undergraduate study to complete the existing undergraduate Arts and Sciences/Education program. It also serves those who want or need more flexibility in their undergraduate program than the dual undergraduate degree allows.

Both the Arts and Sciences undergraduate degree with a major related to the subject to be taught, and the School of Education master's degree are conferred at the same time, after all requirements are met – typically at the end of 5 years. Students begin taking education courses as undergraduates, including some in the fourth year that are taken for graduate credit, and apply to become graduate students for their last two semesters. Some summer study (not necessarily at SU) may be required.

The combined program has a two-stage admission process. The first stage involves meeting with the School of Education contact as early as possible to develop a plan, and, if a decision to pursue the program is made, completing a form signed by Education and a new declaration of program of study form in Arts and Science to declare the Arts and Sciences program with “Teacher Preparation/5 year” appended to the title Latino-Latin American Studies. The second admission stage involves an application to graduate school. Each admission stage requires a 3.0 cumulative GPA and a 3.0 GPA in the courses from the subject to be taught. The second stage also requires successful performance in the undergraduate education courses.

The choices of Arts and Sciences majors, and the course requirements for the Arts and Sciences major, the Liberal Arts Core, and other requirements related to the major are the same for these combined programs as those for students completing the dual enrollment undergraduate Arts and Sciences/Education program. These details about specific adjustments necessary to the Liberal Arts Core and to Arts and Sciences major may be found in the section describing Dual Arts and Sciences/ Education Programs.

Because of the specific course requirements and sequencing of courses, it is important that students interested in one of these programs meet with the Education contact as soon as possible to develop a plan. EDU 204, the first education course, must be taken no later than spring of the junior year.

LGBT Studies Minor

LGBT Studies
Margaret Himley, Co-Director
309 Tolley Humanities Building
315-443-4947

Andrew London, Co-Director
302 Maxwell Hall
315-443-5067

Faculty Barbara Applebaum, Sari Knopp Biklen, Susan Branson, Linda Carty, Steven Cohan, Tucker Culbertson, Albrecht Diem, Beth Ferri, Roger Hallas, Margaret Himley, Thomas M. Keck, Claudia Klaver, Amy Schrager Lang, Andrew London, Laurie Marhoefer, Jonathan Massey, Vivian M. May, Alison Mountz, Jackie Orr, Elizabeth C Payne, Minnie Bruce Pratt, Robin Riley, Perry Singleton

Requirements

The minor in LGBT Studies requires 18 credits of course work: two lower division core courses (QSX 111 Queer Histories, Communities, and Politics and QSX 112 Sexualities, Genders, Bodies) and four upper division courses approved for the minor. QSX 111 counts towards the social science requirement and QSX 112 counts towards the humanities divisional requirement in the Arts and Sciences Core Curriculum: both QSX 111 and QSX 112 count toward the critical reflections requirement. There are no cluster requirements for students; students may take any of the approved courses or petition to substitute other courses with substantial LGBT content or projects. Currently approved courses include those listed below: others will be added in the future.

Two lower division core courses (required)

QSX 111: Queer Histories, Communities, and Politics

Explores and analyzes queer histories, communities and politics from the ancient past to the contemporary, global present through an interdisciplinary reading of research, theory, memoir, biography, fiction, and documentary film.

QSX 112: Sexualities, Genders, Bodies

Explores how sexuality, gender, and embodiment are understood across communities and through time with an interdisciplinary analysis of literature, film, mass media, websites, research, and theory.

The courses for the minor are clustered thematically, and each cluster will offer at least one course every fourth semester. Often, more than one course will be offered per semester.

Communities, Places, and Identities: This cluster explores the social and spatial dimensions of sexuality, the production of sexual identities, and LGBT lives and experiences.

SOC 456 LGBT Studies in Sociology
CRS 331 Queer Relationships
ARC 500 Space and Sexuality
WGS 447 Sexualities and Gender in World Teen Cultures
GEO 500 Geographies of Space and Sexuality

Histories and Knowledges: This cluster analyzes the ways knowledge about sexuality is and has been constructed through social structures, cultural contexts, systems of power, epistemologies, and analytical practices.

HIS/QSX/WGS 389 LGBT Experience in American History
SOC 300 Queering Theory/Embodying Knowledge
WGS 438 Trans Genders and Sexualities
ETS 360 Theories of Gender and Sexuality
AAS 309 Race, Gender, and Sexuality in the African Diaspora

Representation, Media, and Performance: This cluster addresses the ways LGBT cultures and practices have been performed and represented in art and culture.

ETS 360 Documenting Sexualities
ETS 360 Cinema and Sexual Difference
ETS 360 Queer Fictions
WRT 424 Writing, Rhetoric, Identity

Institutions and Public Policy: This cluster studies the ways legal, political, and educational institutions both shape and are shaped by LGBT lives and experiences.

PSC 384 Sexuality and the Law
SWK 400 Lesbian, Gay, Bisexual, and Transgender (LGBT) Health & Well Being
CFE 300 Queer Youth, Straight Schools: GLBT Issues in Education

Linguistic Studies Major

Contact: Jaklin Kornfilt
Director, Linguistic Studies
340 H.B. Crouse
315-443-5375.

Faculty Tej K. Bhatia, Amanda Brown, Mark A. Brown, Richard W. Buttny, Mary Louise Edwards, Gerald R. Greenberg, Diane Grimes, Jaklin Kornfilt, Elizabeth D. Liddy, Amy Lutz, Thomas McKay, Linda Milosky, William C. Ritchie, Amardo Rodriguez, Robert A. Rubinstein, Robert Van Gulick, Susan S. Wadley, Bei Yu

Linguistics is the study of the nature and use of language and provides insight into the workings of the human mind. The major ties together studies in many areas, such as anthropology, child and family studies, computer science, English and other languages, geography, literary criticism, mathematics, philosophy, psychology, sociology, speech communication, speech pathology, and linguistics proper.

LIN 201 is an introduction to linguistic studies and is a prerequisite to the major and to advanced courses. It does not, however, count toward major requirements.

MAJOR REQUIREMENTS

Linguistic studies majors and prospective majors must consult the director of the program before registration.

Students must fulfill the Liberal Arts Core Language Skills requirement in one language and successfully complete at least 6 credits in an additional language (other than English) that is structurally significantly different from the language used to fulfill the Liberal Arts Core requirement. In addition, students successfully complete LIN 301/601 Introductory Linguistic Analysis, LIN 431/631 Phonological Analysis, and LIN 441/641 Syntactic Analysis. Major requirements also include the successful completion of at least 18 credits of additional work, of which at least 9 credits are in courses numbered 300 or above. The 18 credits must be in approved linguistic studies courses, chosen from at least three of the following groups:

Psychology and Biology of Language

CFS 365 Language Development in Children and Families
COG 301 Introduction to Cognitive Science
LIN 491/691 Universal Grammar and Second Language Acquisition
LIN 591 Second-Language Acquisition
CSD 212 Introduction to Communication Sciences and Disorders
CSD 315 Anatomy and Physiology of Speech and Hearing Mechanisms
CSD 316 Introduction to Applied Phonetics
CSD 345 Fundamentals of Speech Science
CSD 409 Neural Processes of Speech and Language

Language in Culture and Society

LIN/ANT 202 Languages of the World
LIN 471/671 Dimensions of Bilingualism and Multiculturalism
LIN/ANT 472 Language, Culture, and Society
LIN 481 Global Communication through World Englishes
LIN/ANT/SOC 571 Topics in Sociolinguistics

Logic and Language

PHI 251 Logic
PHI 252 Logic and Language
PHI 551 Mathematical Logic
PHI 552 Modal Logic
PHI 565 Philosophy of Language
PHI 651 Logic and Language

History and Structure of Language

LIN/ANT 202 Languages of the World
LIN 251 English Words
LIN 451 Morphological Analysis
LIN 461/661 Introduction to Diachronic Linguistics
SPA 436 The Structure of Spanish

Language Pedagogy

LIN 421 Methodology of Teaching English to Speakers of Other Languages
LIN 422 Advanced Methods of Teaching English to Speakers of Other Languages

Linguistics Studies Minor

Jaklin Kornfilt
340 HB Crouse
315-443-2175

Faculty Tej K. Bhatia, Amanda Brown, Mark A. Brown, Richard W. Buttny, Mary Louise Edwards, Gerald R. Greenberg, Diane Grimes, Jaklin Kornfilt, Elizabeth D. Liddy, Amy Lutz, Thomas McKay, Linda Milosky, William C. Ritchie, Amardo Rodriguez, Robert A. Rubinstein, Robert Van Gulick, Susan S. Wadley, Bei Yu

MINOR IN LINGUISTIC STUDIES

To complete a minor in linguistic studies, students take 18 credits, 12 of which are in courses numbered above 299. Students also choose four courses from those listed below, in addition to taking both of the following courses:

LIN 301/601 Introductory Linguistic Analysis
LIN 441/641 Syntactic Analysis

Psycholinguistics/Sociolinguistics/History and Structure of Language

ANT 372 Issues in Intercultural Conflict and Communication
CFS 365 Language Development in Children and Families
LIN 251 English Words
LIN 431/631 Phonological Analysis
LIN 451 Morphological Analysis
LIN 461/661 Introduction to Diachronic Linguistics

LIN 471/671 Dimensions of Bilingualism
COG 301 Introduction to Cognitive Science
LIN/ANT 472/672 Language, Culture, and Society
LIN 491/691 Universal Grammar and Second Language Acquisition
LIN/ANT/SOC 571 Topics in Sociolinguistics
LIN 591 Second-Language Acquisition
CRS 430/630 Intercultural Speech Communication

Languages of the World

LIN/ANT 202 Languages of the World
LIN/ANT 472/672 Language, Culture and Society
CRS 430/630 Intercultural Speech Communication

Philosophy of Language

CIS 468 /IST 664 Natural-Language Processing
CIS 473 Logic and Computability Theory
PHI 251 Logic
PHI 551 Symbolic Logic
PHI 565 Philosophy of Language
PHI 651 Logic and Language

The English Language

LIN 421 Methodology of Teaching English as a Second Language

Logic Minor

Logic

Thomas McKay
541 Hall of Languages
315-443-2245

Faculty Howard A. Blair, Mark A. Brown, Kevan Edwards, Jaklin Kornfilt, Thomas McKay

Requirements

The minor in Logic requires 18 credits, selected in consultation with the program advisor. At least 12 credits are in courses numbered above 299. Students take the following courses (though suitable courses in special topics may be substituted, subject to the program advisor's approval).

Introduction to Concepts of Logic (two courses required)

PHI 251 Logic

And one of the following three courses

PHI 252 Logic and Language
CIS 275 Introduction to Discrete Mathematics
MAT 275 Introduction to Abstract Mathematics

Techniques of Logical Investigation (at least one course)

CIS 473 Logic and Computability
CIS 475 Logic and Automated Reasoning
CIS 521 Discrete Mathematics and Data Structures
PHI 551 Symbolic Logic
PHI 552 Modal Logic

Other Courses (choose two or three)

CIS 373 Introduction to Automata Theory
CIS 473 Logic and Computability
CIS 563 Natural Language Processing
CIS 567 Knowledge Representation and Reasoning
LIN 441/641 Syntactic Analysis
MAT 593 History of Mathematics
PHI 365 Language and Mind
PHI 373 Introduction to the Philosophy of Science
PHI 487 History of Epistemology
PHI 555 Philosophy of Mathematics
PHI 565 Philosophy of Language

Mathematics Major

Chair Eugene Poletsky
215 Carnegie Building
315-443-1472.

Major Advisors: D. Anderson, D. Zacharia.

Faculty Douglas R. Anderson, Uday Banerjee, Pinyuen Chen, Xin Chen, Dan F. Coman, J. Theodore Cox, Steven Diaz, Helen Doerr, Jack E. Graver, Philip S. Griffin, Wu-Teh Hsiang, Tadeusz Iwaniec, Hyune-Ju Kim, Mark Kleiner, Leonid Kovalev, Graham Leuschke, Adam Lutoborski, Joanna O. Masingila, Terry R. McConnell, Claudia Miller, Jani Onninen, Evgeny Poletsky, Declan Quinn, Lixin Shen, John Ucci, Gregory Verchota, Andrew Vogel, Mark E. Watkins, Stefan Wehrli, Yuesheng Xu, Dan Zacharia

All students who plan to take any courses in mathematics should take the Mathematics Placement Examination. Those who do not pass the algebra portion of the test are advised to take MAT 112 as their first mathematics course.

Students who complete any calculus course numbered 284 or higher with a grade of C or better are exempt from the quantitative skills requirement. Otherwise, students may satisfy the quantitative skills requirement by passing two courses in an approved sequence, as described in the Liberal Arts Core Curriculum Handbook. Students who have been awarded credits in calculus on the basis of the CEEB Advanced Placement Examination may use those credits to satisfy this requirement.

There are two calculus sequences, MAT 285, 286 and MAT 295,296,397. Advisors are available in the Department of Mathematics to assist students in the choice of the appropriate calculus sequence, which is very important since switching sequences is difficult. Furthermore, only one of MAT 284 or 285 may be taken for credit. Students cannot receive credit for MAT 284 or 285 after successful completion of MAT 295. Also, students cannot receive credit for MAT 295 after successful completion of MAT 286.

As a preliminary requirement for the mathematics major, students complete 18 credits in the following classes with no grade below a C: MAT 295, 296, 331, 397, and MAT 275. These courses are prerequisites for most upper-division courses. The following sequence is recommended: MAT 295 in the first semester; MAT 296 in the second semester; MAT 331, 397 in the third semester; and MAT 275 when appropriate. However, students with knowledge of trigonometry and a year of high school calculus may be able to enter the sequence at MAT 296 or even MAT 397; students with less preparation may be advised to complete MAT 194 before beginning the calculus sequence. Students considering becoming mathematics majors are strongly encouraged to talk to a mathematics major advisor as soon as possible. Computer science students (only) who have credit for CIS 275, and are pursuing a dual major in mathematics, need not take MAT 275.

Students who wish to teach mathematics at the secondary school level should satisfy the requirements for the B.S. in mathematics and dually enroll in the School of Education. For further information about mathematics education, see "Education/Arts and Sciences (dual program)" in this section of the catalog.

Students who plan to pursue graduate study in mathematics should obtain the B.S. degree and develop a reading knowledge in at least one language chosen from French, German, and Russian. Honors students interested in pursuing a graduate degree in mathematics are advised to take at least one first-year graduate (600-level) course.

B.A. DEGREE REQUIREMENTS

In addition to the preliminary requirement described above, students are required to complete with an average of at least 2.0 and no grade below D, MAT 412 and 15 additional credits in upper division mathematics (MAT) courses numbered 490 or higher, at least two of which are from a single one of the groupings below:

Analysis: MAT 511,512,513,554,562
Algebra: MAT 531,534,541
Finite Mathematics: MAT 531,541,545,551,
Applied analysis: MAT 514,517,518,581
Probability and statistics: MAT 521,525,526
With consent of the advisor, these groupings may be altered.

B.S. DEGREE REQUIREMENTS

Students interested in pursuing the B.S. degree in mathematics obtain, in advance, the approval of a mathematics major advisor and the department chair of a petition to the effect that the upper-division courses to be taken satisfy the requirement for a B.S. degree.

In addition to the preliminary requirement described above, the student is required to complete the following coursework with an average of at least 2.0 and no grade below a D:

MAT 412, 512 (analysis sequence)
MAT 531, 534 (algebra sequence)
MAT 521 (probability and statistics)

and at least one of these:

MAT 514 (differential equations) or
MAT 551 (geometry)

and 12 additional credits in mathematics (MAT) courses numbered 490 or higher. With prior approval of the mathematics major advisor, a student may substitute another MAT course numbered 490 or higher for the MAT 412 requirement. Up to 6 credits in advanced courses in other departments that have been approved in advance by the student's major advisor may be included in the 12 credits.

Distinction in Mathematics is awarded by the Mathematics Department upon completion of a B.S. in mathematics with a minimum cumulative GPA of 3.4,

a minimum GPA of 3.6 in mathematics (MAT) courses at the 300+ level, and either an A or A- in the Senior Seminar or a high-quality Honors Thesis. See the Mathematics Department undergraduate advisor for additional requirements.

Mathematics Minor

Uday Banerjee
315-443-1460
banerjee@syr.edu

Requirements

The minor in mathematics requires the completion of 21 credits with a grade point average of 2.0 or better. Students complete a 15-credit core that includes the calculus sequence (MAT 295, 296, 397 or formerly MAT 295, 296, 397) and either MAT 331 (recommended) or MAT 485.

In addition, students select 6 credits in one of the following subject areas:

Algebra: MAT 531 and one course chosen from MAT 534, 541, or MAT/CIS 545.

Analysis: Any two courses chosen from MAT 511, 512, 513, 562.

Applied Mathematics: Any two courses chosen from MAT 517, 518, 532.

Differential Equations: MAT 514, 517.

Geometry: MAT 531, 551 or MAT 531, 554

Probability and Statistics: MAT 521, 525 or MAT 521, 526

Note: Students who take MAT 485 instead of MAT 331 may not use the differential equations sequence to satisfy minor requirements.

Mathematics Secondary Teacher Preparation Program

Combined Bachelor's/Master's Degrees - Secondary Teacher Preparation Programs

School of Education contact: Marie Sarno, Teaching and Leadership Programs, 138 Huntington Hall. mrsarno@syr.edu

This combined degree option, offered by the College of Arts and Sciences and the School of Education meets the academic requirements for a New York Teaching certification for grades 7-12 in mathematics. It is an alternative to the existing undergraduate Arts and Sciences/Education dual programs in these areas, and an option that often takes less time and fewer credits than earning the entire master's degree in education after completion of a general Arts and Sciences degree.

The combined bachelor's/master's teacher preparation programs were designed to meet the needs of Arts and Sciences undergraduates who, because of a later decision to become a teacher, would need to add a semester or more to their undergraduate study to complete the existing undergraduate Arts and Sciences/Education program. It also serves those who want or need more flexibility in their undergraduate program than the dual undergraduate degree allows.

Both the Arts and Sciences undergraduate degree with a major related to the subject to be taught, and the School of Education master's degree are conferred at the same time, after all requirements are met – typically at the end of 5 years. Students begin taking education courses as undergraduates, including some in the fourth year that are taken for graduate credit, and apply to become graduate students for their last two semesters. Some summer study (not necessarily at SU) may be required.

The combined program has a two-stage admission process. The first stage involves meeting with the School of Education contact as early as possible to develop a plan, and, if a decision to pursue the program is made, completing a form signed by Education and a new declaration of program of study form in Arts and Science to declare the Arts and Sciences program with “Teacher Preparation/5 year” appended to the title Mathematics. The second admission stage involves an application to graduate school. Each admission stage requires a 3.0 cumulative GPA and a 3.0 GPA in the courses from the subject to be taught. The second stage also requires successful performance in the undergraduate education courses.

The choices of Arts and Sciences majors, and the course requirements for the Arts and Sciences major, the Liberal Arts Core, and other requirements related to the major are the same for these combined programs as those for students completing the dual enrollment undergraduate Arts and Sciences/Education program. These details about specific adjustments necessary to the Liberal Arts Core and to Arts and Sciences major may be found in the section describing Dual Arts and Sciences/ Education Programs.

Because of the specific course requirements and sequencing of courses, it is important that students interested in one of these programs meet with the Education contact as soon as possible to develop a plan. EDU 204, the first education course, must be taken no later than spring of the junior year.

Mathematics Education

Arts And Sciences/Education (Dual)

Arts and Sciences contact: Ann Marie McGinnis, Director, Student Records Office, 329 Hall of Languages, mcginnis@syr.edu or 315-443-2205.

Education contacts: Pam Hachey (pkhachey@syr.edu) or Carol Radin (cvsradin@syr.edu), Assistant Directors of Academic Advising, Office of Academic and Student Services, 270 Huntington Hall, 315-443-9319

In order to graduate with eligibility to apply for New York State teacher certification in the secondary (7-12) academic areas of English, mathematics, science, or social studies, dual enrollment with the School of Education is required. Completion of all College of Arts and Sciences requirements (including the Liberal Arts Core with courses from specific categories and a major in one of the listed content areas) combined with 36 credits of education courses (including methods and student teaching) for a total of 123-126 credits are required. In addition, completion of New York State testing and other certification requirements apply. Please see the following detailed information.

The dual programs for prospective teachers provide a broad general education (the Liberal Arts Core of the College of Arts and Sciences), depth in the content area to be taught, and professional coursework and field experiences focusing on the skills and knowledge necessary to teach students from diverse backgrounds and with varying abilities. The programs available are listed below. A minimum of 123-126 credits are required. Some students may need to complete total program credits that are slightly greater than 126.

Students in the dual programs complete a program of study offered jointly by the College of Arts and Sciences and the School of Education: English education; mathematics education; science education (biology, chemistry, earth science, or physics); or social studies education. Students also complete the requirements for a College of Arts and Sciences major in the subject area.

Within the Liberal Arts Core, major, and/or electives, students must include one course from the following:

- mathematics (MAT 112 may not meet this requirement) (3 credits)
- history (3 credits)
- social science course other than history or psychology (3 credits)
- arts and culture/fine arts (3 credits)
- humanities course other than FIA or HST (3 credits)
- approved humanities or social science course with non-Western content (list is available from the education advisor) (3 credits)

When planning their subject areas, students should keep in mind that at least 9 credits of education are required in the spring of the junior year in order to meet the prerequisites for the fall student teaching experience. As many content (subject area) courses as possible should be completed by the end of the junior year. Other electives and remaining Liberal Arts Core courses can be delayed until the spring of the senior year.

All programs meet the academic requirements for New York State initial adolescent certification to teach grades 7-12 in the specified subject. Successful completion of certification examinations is also required for New York State teacher certification.

A core of professional requirements shared by all of these is as follows. Additional liberal arts, professional, and other requirements are described in the specific program sections below. More detailed information is available from the program coordinator.

PROFESSIONAL EDUCATION CORE (INCLUDING REQUIREMENTS OTHER THAN COURSES)

The professional sequence includes coursework, field experience and student teaching, and requirements other than coursework, described below.

The Professional Core Requires:

- EDU 204 Principles of Teaching and Learning in Inclusive Classrooms* (4 credits)
- EDU 304 Study of Teaching* (4 credits)
- EDU 310 American School* (3 credits)
- RED 326 Literacy Across the Curriculum* (4 credits)

Workshops: Identifying/Reporting Child Abuse; Violence Prevention; Child Abduction Prevention; Highway Safety; Alcohol/Drug/Tobacco Prevention; Fire and Arson Prevention.

* EDU 304 and RED 326 should be taken after EDU 204, no later than the first semester of junior year. EDU 204 may be taken as early as the second semester of first year. EDU 310 may be taken before, during, or after professional semesters.

The semesters of registration listed are for students completing the program in four years. Others would adjust accordingly, with the candidacy and second professional semester as late in the program as possible.

Candidacy Semester

(spring of the junior year)

Prerequisites: Enrollment in the specific program; development of an acceptable professional portfolio (reviewed during the fall prior to the candidacy semester); a minimum 2.8 cumulative average, and 2.8 (3.0 for English education) in both required education and in content (subject matter) courses; completion of EDU 204 and 304, RED 326, and the number of content courses required by the program; and appropriate progress toward meeting all of the program assessment proficiencies and dispositions.

- SED 413 or SCE 413 Methods and Curriculum in Teaching (in specific subject area)(3credits)
- SED 409 Adapting Instruction for Diverse Student Needs (3 credits)
- EDU 508 Student Teaching/Secondary Candidacy (including during SU's spring break) (3 credits)

Note: SU Abroad study planned for the junior year would need to take place in the fall semester.

Standard Student Teaching Semester

(fall of the senior year)

Prerequisites: Successful completion of the candidacy semester and an acceptable professional portfolio; completion of the required amount of credits in the content area; grade point averages at or above the minimums stated above; successful review of all appropriate student assessment proficiencies and dispositions.

- EDU 508 Student Teaching (9 credits)
- SED 415 Teacher Development (3 credits)

Because this student teaching placement is a full-time, 10-week experience, no other daytime courses can be taken, and it is not advisable to plan more than 12 total credits in this semester, unless approved by an advisor.

Admissions

A minimum of a 2.8 grade point average is required for admission to these Arts and Sciences and Education dual enrollment programs. GPA requirements for admission to the candidacy and standard student teaching semesters, and other prerequisites to these semesters are mentioned above. Additional requirements may apply to some programs.

Intra-University transfer to the School of Education is coordinated through the Office of Academic and Student Services, 270 Huntington Hall. Upon acceptance into a dual program, the student should also complete the official program of study form required by the College of Arts and Sciences. Students may not declare a major in an Arts and Sciences/Education program until they are accepted by the School of Education. Application should be made as soon as possible, but must be made no later than the start of the fall of the junior year by those hoping to complete the program in four years (although even then extra semesters may be necessary).

Advising And Special Services

A dually enrolled student has an advisor in each college or one advisor dually appointed to both colleges. Early contact with the education advisor is important for progress and careful planning. Contact is also required before each registration in order to have the School of Education advising hold lifted.

Students planning graduation from these programs are expected to ensure a senior check has been completed with the School of Education, in addition to similar monitoring by the College of Arts and Sciences. They also may take advantage of the job search services of the Education Career Services Office, 270 Huntington Hall.

Mathematics Education

Contact: Joanna Masingila, 203 Carnegie Building, 315-443-1483, or jomasing@syr.edu

In addition to the professional education requirements, students in mathematics education complete the Bachelor of Science in mathematics and the following requirements:

Core Requirements

Mathematics education majors must complete the Liberal Arts Core curriculum with these additional specific requirements:

- WRT 205 Writing Studio 2 **OR**
- WRT 209 Writing Studio 2 (Honors) (3 credits)
- One approved history (HST) course (3 credits)
- One social science course (other than history (HST) or psychology (PSY)) (3 credits)
- One fine arts within Arts and Sciences (FIA) course (3 credits)
- One humanities course (cannot be history (HST) or fine arts (FIA) (3 credits)
- One multicultural humanities or social science course two-course sequence in calculus-based physics (3 credits)

Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study

Mathematics Content

- MAT 295 Calculus I (4 credits)
- MAT 275 Introduction to Abstract Mathematics (3 credits)
- MAT 296 Calculus II MAT (4 credits)
- MAT 331 First Course in Linear Algebra (3 credits)
- MAT 397 Calculus III (4 credits)
- MAT 412 Foundations of Calculus (3 credits)
- MAT 512 Introduction to Real Analysis (3 credits)
- MAT 521 Introduction to Probability and Statistics (3 credits)
- MAT 525 Mathematical Statistics **OR**
- MAT 526 Probability (3 credits)
- MAT 531 Second Course in Linear Algebra (3 credits)
- MAT 534 Introduction to Abstract Algebra (3 credits)
- MAT 541 Introduction to Number Theory (3 credits)
- MAT 545 Introduction to Combinatorics (3 credits)
- MAT 551 Fundamental Concepts of Geometry (3 credits)
- MAT 593 History of Mathematics (3 credits)

Medieval And Renaissance Studies Minor

Medieval and Renaissance Studies
Dennis Romano, Advisor
145 Eggers Hall

Faculty Crystal Bartolovich, Jean-François Bédard, Dympna Callaghan, Albrecht Diem, Laurinda Dixon, Wayne Franits, Samantha Kahn Herrick, Chris Kyle, Matilde M. Mateo, Gary M. Radke, Dennis Romano, Stephanie Shirilan, Junko Takeda, Amanda Winkler

Requirements:

Medieval and Renaissance Studies explores the birth of our own familiar world while introducing students to an often alien and mysterious past. Students will embark an intellectual adventure through coursework that focuses on the advent of science, the voyages of discovery, the birth of democracy, the writings of the great poets from Dante to Shakespeare, the monumental achievements of artists such as Michelangelo and Rembrandt, the birth of print culture and censorship, monastic life, the Reformation, the beginnings of capitalism and consumerism, as well as the power of city states.

The minor is open to all undergraduates university-wide.

Total Credits Needed: 18 credits distributed as follows:

I. Two courses (6 credits) from the group of courses listed below (no restrictions):

- ETS 113 -- Survey of British Literature before 1789
- ETS 121 - Introduction to Shakespeare
- HOA 105 - Arts and Ideas
- HOM 165 - Understanding Music, Part I .
- HOM 266 - History of European Music before 1750
- HST 111 - Early Modern Europe, 1350-1815
- HST 211 - Medieval and Renaissance Europe
- HST 212 - Religion in Medieval and Reformation Europe
- HST 231 - English History: from the Roman Occupation to the Revolution of 1688
- LIT 245 - Florence and Renaissance Civilization

II. The remaining 12 credits must be courses at the 300 level or above.

III. One upper division history [HST] course (3 credits) on a Medieval and/or Renaissance topic.

IV. Three additional upper division courses (9 credits) on Medieval and/or Renaissance topics. See List of courses below.

V. No more than three courses (9 credits) upper or lower division may be taken in the same discipline.

List of Upper Division Courses in Medieval and Renaissance Studies.

N.B. In addition to the courses below, there are many courses in ETS, History (300 Special topics, 401, Senior seminars), LIT/ITA and other departments whose subject changes from semester to semester and that can be counted toward the minor. Courses are also offered in the various DIPA centers that may also be counted toward the minor. Those wishing to have any of these courses count should petition the coordinator (advisor) of the Medieval and Renaissance Studies Minor to have these courses count toward the minor.

- HOA 410 -Art and Ideology of Medieval Spain
- HOA 323/ARC 332 - Sixteenth-Century Italian Architecture
- HOA 322/ARC 335 - Renaissance Architecture in Italy, 1400-1520
- HOA 324/ARC 336 - Italian Seventeenth-Century Architecture
- HOA 430 - Northern Renaissance Art, 15th century
- HOA 431 - Northern Renaissance Art, 16th century
- HOA 311 - Italian Medieval Art
- HOA 312 - Romanesque Art
- HOA 313 - Gothic Art
- HOA 421 - Early Renaissance Art
- HOA 422 - High Renaissance Art and Mannerism
- HOA 400/DRA 400 - Music and Shakespeare
- HOA 445 - Baroque Art in Southern Europe
- HOA 446 - Baroque Art in Northern Europe
- HOA 425 - Leonardo da Vinci: Artist and Engineer
- HOA 426 - Michelangelo's Italy
- HOA 439/ARC 433 - French Architecture, 16th and 17th Centuries
- HOA 530 - History of Printmaking
- HOA 540 - Seventeenth-Century Dutch Painting
- HOA 541 - Arts and Ideas in the Seventeenth Century
- HST 310 - Early Medieval Europe
- HST 311 - Medieval Civilization
- HST 312 - Reformation of the Sixteenth Century
- HST 313 - French Revolution: Sun King to Guillotine
- HST 355 - The Italian Renaissance
- HST 357 - From Henry VIII to Elizabeth I
- HST 358 - Revolution and Reaction in 17th Century England
- HST 367 - Plague in European Society
- HST 376 - Renaissance London
- HUM 420 - Studies in Renaissance Cultural History
- PHI 311 – The Rationalists
- SPA 441 - Medieval and Golden Age Literature
- SPA 443 - Cervantes

Middle Eastern Studies Major

Program Director Mehrzad Bourojerdi
332 Eggers Hall
315-443-5877
mborouje@maxwell.syr.edu

Faculty Carol Babiracki, Mehrzad Boroujerdi, Miriam Fendius Elman, Carol Fadda-Conrey, Ken Frieden, Rania Habib, Susan Henderson, Amy Kallander, Tazim R. Kassam, Amos Kiewe, Jaklin Kornfilt, Robert A. Rubinstein, James W. Watts

The Middle Eastern Studies Program provides students with the opportunity to study the languages, history, culture, religions and politics of the Middle East. Overseen by the College of Arts & Sciences and the Moynihan Institute of Global Affairs at the Maxwell School, the MESP brings together faculty members from many departments including Anthropology, Architecture, Communications & Rhetorical Studies, Education, Fine Arts, History, International Relations, Language, Literature, and Linguistics, History, International Relations, Law, Political Science, and Religion. The research and teaching interest of the affiliated faculty include the analysis of ancient source texts, the literature, culture and religions of the Middle East, conflict resolution, and contemporary politics.

MAJOR REQUIREMENTS

This interdisciplinary major, leading to a B.A. in Middle Eastern Studies, requires 36 credits in Middle Eastern Studies courses. The major will require students to complete (a) three core courses, (b) three consecutive semesters in one of the regional languages (Arabic, Hebrew, Persian, and Turkish), (c) two lower division courses and (d) three upper division courses. The Major is open to all undergraduates who have completed at least two Middle Eastern content courses (one of which can be a language course) and have a GPA of 2.8 or better. Prospective majors must meet with the Program Director before submitting a major application. At least 18 of the 36 credits required for the major should be in courses (numbered above 299). A maximum of six credits of independent study can be applied to the major by petition. Experience credit courses (i.e., internships) may not be used to satisfy the requirements of the major.

Required Core Courses (choose three courses, 9 credits)

MES/HST 318: Introduction to Modern Middle East
MES/PSC 344: Politics of the Middle East
MES 430: Senior Seminar in Middle Eastern Studies, including but not limited to:
ANT/IRP/MES 468/668: Middle East in Anthropological Perspective
ANT/IRP/MES 707: Culture and World Affairs
ARC 435/735: Islamic Architecture
HST/MES 644: Israel & Palestine: Historical Approaches
REL 607: Ancient Religious Rhetoric
REL/ANT 625: Pluralism in Islam
REL/ANT 628: Muslim Rituals, Practices, and Performances
REL 676/ JSP 600: Advanced Topics in Judaic Literature
PPA 705: Responding to Proliferation
PSC/MES 682: Social Theory & Middle East Politics

Language Category (three consecutive courses, 12 credits):

ARB 101,102,201, 202, 301 Arabic
PRS 101,102,201, 202 Persian
HEB 101,102, 201, 202, 301 Hebrew
TRK 101,102, 201, 202 Turkish

Lower Division Courses (two courses, 6 credits):

ARB 202 Arabic III
HEB 202 Hebrew III
ETS 235 Classics of World Literature I
HST 210 The Ancient World
PRS 202 Persian III
REL/JSP 107 Jewish Literature and Film
REL/JSP 114 The Bible
REL/JSP 135 Judaism
REL/SAS 165 Islam
REL/JSP 215 The Hebrew Bible
REL 217 The New Testament
REL/JSP/LIT 231 Judaic Literature
TRK 202 Turkish III

Upper Division Courses (three courses from across at least two different departments, 9 credits)

ANT/HTW/MES 382 Health in the Middle East
ANT/IRP/MES 468/668
ANT/IRP/MES 707 Middle East in Anthropological Perspective
ARC 435/735/HOA 389 Islamic Architecture
HEB 301 Hebrew IV
HST/MES 318 Introduction to the Middle East
HST/MES 319 The Middle East in the 20th Century
HST/MES 644 Israel and Palestine: Historical Approaches
PSC/MES 344 Politics of the Middle East
PSC/MES 345 Islam and Politics in Asia
PSC/MES 349 Politics of Iran
PSC/SOC 362/REL 355 Religion, Identity and Power
PSC/MES 366 Representations of the Middle East
PSC/MES 367 Oil, Water and War
PSC/MES/HST 368 Islam and the West

PSC/MES 682 Social Theory and Middle East Politics
REL 301 Ancient Near Eastern Religions and Cultures
REL 324 Religions and Storytelling
REL/JSP 307 The Temple and the Dead Sea Scrolls
REL/JSP 334 Modern Judaism
ETS 315/REL/JSP/LIT 335 Israeli Literature and Culture
REL 364 Islamic Literatures
REL/SAS 367 Islamic Arts and Aesthetics
REL/PHI/JSP 435 Modern Judaic Thought
REL/WSP/SAS 465 Gender, Politics and Islamic Societies
REL 607 Ancient Religious Rhetoric
REL 625 Pluralism in Islam
REL/ANT 628 Muslim Rituals, Practices, and Performances
REL 676/JSP 600 Religion and Judaic Literature

Middle Eastern Studies Minor

Mehrzad Boroujerdi
mes@maxwell.syr.edu
315-443-5877

This interdisciplinary minor examines the history, culture, languages, religions, and politics of the Middle East. Faculty research and teaching focus on ancient source texts, literature, history, and culture of the Middle East; Islam and Judaism; conflict resolution; gender issues; and contemporary political issues. Students may study these and other aspects of the Middle East.

Requirements:

The minor requires 20 credits in Middle Eastern Studies, at least 12 in courses numbered 300 or above. Students take an 11 credit core consisting of:

1. an introductory course (either MES/PSC 344 or MES/HST 318)
2. two consecutive courses in one regional language (Arabic, Hebrew, Persian, Turkish) between levels 101 and 202

Nine additional credits are required in upper division courses from at least two different departments including but not limited to those listed below. Students may take any of the approved courses or petition to substitute other courses with substantial Middle East content.

Approved Courses:

ANT/HTW/MES 382 Health in the Middle East
ANT/IRP/MES 468 Middle East in Anthropological Perspective
ARC 435/HOA 389 Islamic Architecture
HEB 301 Advanced Hebrew
HST/MES 318 Introduction to Modern Middle East
HST/MES 319 Middle East in the 20th Century
PSC/MES 344 Politics of the Middle East
PSC/MES 345 Islam and Politics in Asia
PSC/MES 349 Politics of Iran
PSC/MES 366 Representations of the Middle East
PSC/MES 367 Oil, Water and War
REL 301 Ancient Near Eastern Religions and Cultures
REL 324 Religions and Story Telling
REL/JSP 307 The Temple and the Dead Sea Scrolls
REL/JSP 334 Modern Judaism
REL/JSP/LIT 335 Israeli Literature and Culture
REL 364 Islamic Literatures
REL/SAS 367 Islamic Arts and Aesthetics
REL/PHI/JSP 435 Modern Judaic Thought
REL/WGS/SAS 465 Gender in Islam
PSC/MES/HST 368 Islam and the West
PSC/SOC 362/REL 355 Religion, Identity and Power

Modern Foreign Language Major

Contact: Erika Haber
340 H.B. Crouse
315-443-4200.

The major requires 36 credits in courses numbered 202 and above in two of the following languages: French, German, Italian, Russian, and Spanish. Normally students will take 18 credits in each of the two languages. However, they may petition to take 21 credits in one language and 15 in the other.

Music History And Cultures Major

Amanda Eubanks Winkler, Chair
308 Bowne Hall
315-443-4185

Stephen Meyer, Director of Undergraduate Studies
308 Bowne Hall

The major in Music History and Cultures is designed for students who wish to study music in its historical, social and cultural contexts and in relation to other arts. Although majors are encouraged to develop performance skills, the focus of the degree is on the study of musical cultures and styles in a liberal arts environment.

Lower Division Requirements (9-15 credits)

1) Musical skills (0-6 credits). Students are required to demonstrate competency in basic musical skills, either by successfully completing a first-year music theory sequence (HOM/MTC 125, 126 or MTC 145, 146) or by passing a competency examination.

2) Introduction to music history and culture (9 credits). Students are required to complete three courses from the following list. One of these three courses must be from the main music history sequence (HOM 266, 267, 268, or 285):

HOM 165: Understanding Music I
 HOM 166: Understanding Music II
 HOM 195: Performance Live
 HOM 266: European Music before 1750
 HOM 267: European Music 1750-1945
 HOM 268: European and American Music since 1945
 HOM 285: Introduction to World Music

Upper Division Requirements (21-24 credits)

1) Breadth requirement (9 credits). Students must complete at least one upper-division course in European Art Music (HOM 361, 362, 363, 364, 561, 562, 563, 568), American Music (HOM 371, 373, 375, 377, 378, 571, 573), and Ethnomusicology (HOM 381, 382, 383, 384, 482, 512).

2) Major electives (9 credits). Students must take at least 9 additional upper-division HOM credits. 6 of these credits may be earned in non-music HOM courses (i.e. art history or history of architecture). Candidates for departmental honors (see below) may use HOM 496 (3 credits) to count toward the fulfillment of this requirement.

3) HOM 396: Junior Seminar: Musicology in Action (3 credits). This course, required of all Music History and Culture majors, will normally be offered each spring semester. The specific content of the course will vary from year to year, but its purpose will remain the same: to stimulate critical thought about music and to hone our students' research and writing skills.

4) HOM 496: Distinction in Music History and Cultures (3 credits, required only for students earning a degree with distinction). Majors who have earned a cumulative GPA of at least 3.4 and a cumulative departmental GPA of at least 3.7 will be invited to earn a degree with distinction. In order to earn this honor, students are required to enroll in HOM 496. These students will work independently, under the supervision of a faculty member, to complete a large-scale project in some aspect of music history or cultures. Students will determine the topic for their Distinction Project in consultation with a thesis advisor, whom they will choose from among the Music History and Culture faculty (in exceptional cases other faculty may serve in this capacity). The thesis will also be evaluated by a second reader, chosen by the thesis advisor (in consultation with the student) from other faculty in music history and cultures or related disciplines. In most cases, the project will take the form of a formal essay approximately 30 pages in length. Alternative types of projects are also possible, provided that they meet with the approval of the Music History and Cultures faculty. Regardless of the topic, the project should constitute an independent and integral work, serving as a persuasive demonstration of the student's skills and talents as well as a vivid component of the student's credentials.

Performance Requirements (0-4 credits)

In addition to the course requirements listed above, students in the B. A. in Music History and Cultures program are required to complete at least two semesters of individual studio lessons. Students are also required to participate in a Syracuse University performing ensemble for at least two semesters. These requirements may be fulfilled at any point in the degree program.

Students may petition to have up to 9 credits of appropriate courses in music history taken outside the department (non-HOM courses) count toward the music history and cultures major.

Music History And Cultures Minor

Amanda Eubanks Winkler, Chair
 308 Bowne Hall
 315-443-4185

Stephen Meyer, Director of Undergraduate Studies
 308 Bowne Hall
 315-443-5034

The minor in music history and cultures requires 18 credits of coursework drawn from the list of departmental offerings below. Of these 18 credits, 6 may be earned in courses from the lower-division, music history sequence (200 level) while the remaining 12 must be earned in upper-level (300 level and above). Moreover, students may petition to have up to 6 credits of selected topics courses in music history (HOM 300 or HOM 400) count toward the minor. In addition, students may petition to have up to 6 credits of music history courses taken outside the department count toward the minor.

HOM 165/166, and HOM 195 do not count toward the minor.

HOM 313 Film Music
 HOM 266/MHL 168 History of European Music before 1750
 HOM/MHL 267 History of European Music 1750-1945

HOM/MHL 268 European and American Music Since 1945
 HOM 285/MHL 185 Introduction to World Music
 HOM 361 Topics in European Music
 HOM 362 Symphonic Music
 HOM 363 Opera in Society
 HOM 364* The London Classical Music Scene
 HOM 568 Topics in Beethoven
 HOM 371 Topics in American Music
 HOM 373 History of Musical Theater
 HOM 375 American Music
 HOM 377 History of Jazz
 HOM 378 History of Rock
 HOM 381 Topics in Ethnomusicology
 HOM 382 Music in Multicultural America
 HOM 383 Worlds of Dance
 HOM 384/SAS 385 Music and Dance of India
 HOM 385 Structure and Meaning in World Music
 HOM/REL 392 Music and the Sacred
 HOM 419 Music in the Media
 HOM 473/WGS473/673 Women, Rap, and Hip-Hop Feminism
 HOM 482 The Roots of Global Pop
 HOM 492/REL 392 Music and the Sacred
 HOM/WGS494 Music and Gender
 HOM 497 Music and Politics
 HOM 512 World Music in Film
 HOM/DRA 561 Music and Shakespeare
 HOM 562 Bach and Handel
 HOM 563 The Operas of Wagner
 HOM 568 Music of Beethoven
 HOM 571 Popular Music Studies
 HOM 573 History of American Song

(*Denotes courses taught in London through SU Abroad.)

Native American Studies Minor

Native American Studies
 Richard Loder
 314 Tolley Humanities Building
 315-443-4580

Faculty Douglas V. Armstrong, Philip P. Arnold, Christopher R. DeCorse, Gregg Lambert, Richard R. Loder, Scott Lyons, Robert Odawi Porter, Maureen Trudelle Schwarz, Sascha Scott

The Minor in Native American Studies provides an understanding of the religious, historical, political and aesthetic dimensions of the Native Nations of the Americas. In consultation with the advisor students plan the programming according to their individual needs and interests.

Requirements:

The minor is open to the full university community. It requires completion of six courses (18 credits) from two different departments. Twelve of the 18 credits must be in courses numbered above 299. Examples of available courses leading to a minor in Native American Studies could include (but are in no way limited to) the following:

NAT 105 Introduction to Native American Studies
 NAT 208 Haundenasaunee Language and Culture
 REL/NAT 142 Native American Religion
 SOC 248 Ethnic Inequalities and Intergroup Relations
 ETS 230 Ethnic Literary Traditions-Native American Literature
 ETS 310/NAT 400 Literary Periods: Contemporary American Indian Fiction
 ETS 315/NAT 400 Ethnic Literatures and Cultures: American Indian Political Literature 820-1930
 NAT 346 / HOA 387 Native North American Art
 HST 302 Early American History: From Invasion to Empire 1607-1697
 HST 330 Iroquois History: Peoples of the Long House
 ANT/NAT 323 Peoples and Cultures of Native North America
 REL/NAT 347 Religion and the Conquest of America
 REL/NAT 348 Religion and American Consumerism
 SOC/NAT 441 Federal Indian Policy and Native American Identity
 SOC/NAT 444 Contemporary Native American Movements
 ANT/NAT 445 Public Policy Archaeology
 ANT/NAT 447 Archaeology of the Americas
 ANT/NAT 456 Representations of Indigenous Peoples in Popular Culture
 ANT/NAT 459 Contemporary Experience in Native North America
 ANT/NAT 461 Museums and Native Americans
 EFB 496 Land and Culture: Native American Perspectives on the Environment

Other selected topics courses may apply when content is relevant and permission is secured from the director of Native American Studies.

Integrated Learning Major In Neuroscience

Integrated Learning Major in Neuroscience
441 Hall of Languages
315-443-1414
emjulian@syr.edu

Professionals in technically demanding fields are commonly asked to apply their expertise to other seemingly unrelated disciplines. As a result, they must have a comprehensive understanding of not only their own field, but also secondary knowledge of another broadly based, often interdisciplinary, field of study. A chemist might lend his or her expertise to a matter of legal or ethical importance. A curator might evaluate scientific and historical evidence about a painting's authenticity. A journalist might research a story involving science, medicine, and technology.

Integrated Learning Majors provide broad, interdisciplinary opportunities for students through valuable tools and knowledge in a variety of fields. This synergistic approach adds scholarly mettle to both the major and the interdisciplinary program, while exploiting their connective properties. For example, an undergraduate interested in chemistry could have an integrated learning program in forensic science. Or a student pursuing archeology could have an integrated learning major in ethics, with focus on social science research.

Majors in the integrated learning major in Neuroscience will integrate with: Biology, Communication Sciences & Disorders (CSD), Linguistics, Philosophy, Physics and Psychology) and two majors in Engineering and Computer Sciences (Bioengineering and Chemical Engineering).

Required Entry Courses: 3 credits

BIO 211 Introduction to Neuroscience or
PSY 223 Biopsychology (prereq PSY 205)

Required courses: Intersection of Mind and Brain; 9 credits

PSY 322 Cognitive Psychology (prereq: PSY 205) or
COG 301 Intro to Cognitive Science
CSD 409 Cognitive Neuroscience of Speech & Language
BIO 407 Advanced Neuroscience

Elective Courses: 6 credits chosen from the courses listed below. Two courses must be thematically related to one another and from fields other than the student's primary major. Courses with the same prefix are presumed to be thematically-related. Other courses may be paired as thematically-related with permission of the student's advisor.

Neuroscience

NEU 415 Sensory Neuroanatomy
NEU 421 Cellular Neuroscience

Biology

BIO 326 Genetics and Cell Biology I (prereq BIO 121, 123, and CHE 106)
BIO 327 Genetics and Cell Biology II (prereq BIO 121, 123, and CHE 106)
BIO 345 Population Biology (prereq BIO 121 and 123)
BIO 417 Animal Behavior and Evolutionary Biology Lab (prereq BIO 345 or permission)

Communication Sciences & Disorders

CSD 315 Anatomy & Physiology of the Speech System (prereq: CSD 212)
CSD 325 Fundamentals of Hearing Science (prereq: CSD 212)
CSD 345 Fundamentals of Speech Science (prereq: CSD 315)
CSD 422 Development of Speech and Language
CSD 429 Basic Clinical Audiology

Linguistics

LIN 301 Introduction to Linguistic Analysis (prereq: LIN 201)
LIN 431 Phonological Analysis (prereq: LIN 301)
LIN 441 Syntactic Analysis (prereq: LIN 301)
LIN 451 Morphological Analysis (prereq: LIN 301)
LIN 491 Universal Grammar and Second Language Acquisition (prereq: LIN 301)
LIN 571 Topics in Sociolinguistics

Mathematics

MAT 397 Calculus III (prereq: MAT 296 or equivalent)
MAT 331 First Course in Linear Algebra (prereq: MAT 286 or 296)
MAT 485 Differential Equations and Matrix Algebra for Engineers (prereq: MAT 397)

Philosophy

PHI 378 Minds and Machines (prereq: any PHI or computer science course)

PHI 373 Introduction to the Philosophy of Science (prereq: PHI 107, 25, or 551)
PHI 375 Philosophy of Biology: What can Evolution Explain (prereq: 1 PHI and 1 BIO course)
PHI 377 Philosophy of Psychology (prereq: PSY 205)
PHI 533 Philosophy of Mind

Physics

PHY 301 Communicating Quantitative Science: Visualization, Internetics, and Beyond (coreq: MAT 285 or 295)
PHY 307 Science and Computers I (prereq: PHY 211)
PHY 308 Science and Computers II (prereq: PHY 307 and MAT 285/286 or MAT 295/296)
PHY 315 Biological and Medical Physics (prereq: PHY 212 or 216)
PHY 360 Vibrations, Waves, and Optics (Prereq: PHY 212)
PHY 444 Soft Matter (prereq: any 300-level MAT or physical science course)
PHY 531 Thermodynamics and Statistical Mechanics (prereq: PHY 361)

Psychology

PSY 315 Drugs & Human Behavior (prereq: PSY 205)
PSY 321 Sensation & Perception (prereq: PSY 205)
PSY 323 Brain & Behavior (prereq: PSY 205)
PSY 324 Developmental Biopsychology (prereq: PSY 205)
PSY 331 Lab in Sensation and Perception (prereq: PSY 313, coreq or prereq PSY 321)
PSY 332 Lab in Cognitive Psychology (prereq: PSY 205, coreq or prereq PSY 322)
PSY 334 Lab in Developmental Biopsychology (prereq: PSY 205, coreq or prereq PSY 324)
PSY 373 Human Memory (prereqs: PSY 205, PSY 322)
PSY 382 Health Psychology (prereq: PSY 205)
PSY 392 Stress and Health (prereq: PSY 205)
PSY 426 Cognitive Neurochemistry (prereq: PSY 205)
PSY 437 Cognition & Aging (prereq: PSY 205)

Biomedical and Chemical Engineering

BEN 305 Engineering Analysis of Living Systems I
BEN 306 Engineering Analysis of Living Systems II (prereq: BEN 305)
BEN 364/664 Quantitative Physiology (prereq: BEN 305)
BEN 458 Biomedical Imaging

Engineering and Computer Sciences

CIS 311 Introduction to Computational Science I (prereq: MAT 296, PHY 211 coreq: CIS 313)
CIS 313 Scientific Programming I (coreq: CIS 311)
ELE 351 System and Signal Analysis (prereq: ELE 232, MAT 296)
ELE 352 Digital Signal Processing (prereq: ELE 351)

Required Capstone Course: 3 credits

PSY 496 Neuroscience in the Arts, the Sciences, and Society

Philosophy Major

Contact: Director of Undergraduate Studies
541 Hall of Language
315-443-2245.

Using reason and argument, philosophers seek to answer the most fundamental of questions: What am I? What can I know? What must I do? Because the study of philosophy so effectively sharpens and extends the mind, many students find it to be the ideal companion to other courses of study.

The philosophy curriculum has two principal divisions. The first division consists of studies that are central to philosophy proper. There are four core areas: ethics, logic, metaphysics and the theory of knowledge, and the history of philosophy. The second division includes courses devoted to the philosophical examination of other areas of inquiry and culture, such as mathematics, the natural and social sciences, language, politics and the law, the arts, history, education, and religion.

Students particularly interested in political philosophy should see the program description under that heading in this section of the catalog.

Students particularly interested in logic should see the description of the logic concentration, included under "Interdisciplinary Minors" in this section of the catalog.

MAJOR REQUIREMENTS

Students seeking a BA in philosophy are required to complete at least 33 credit hours in philosophy, at least 24 credits of which are numbered 300 or above. In order for a course to count towards a student's major program, the student must receive a grade of C or better in the course. Each student must fulfill the following requirements:

1. PHI 251 Introduction to Logic
2. PHI 401 Philosophy Majors' Seminar
3. PHI 307 or PHI 510.
4. PHI 311 or PHI 313.
5. At least one course from each of the following core areas:

A. Metaphysics and Epistemology

PHI 321 20th Century Theories of Knowledge, Reality and Meaning
 PHI 341 Philosophy of Religion
 PHI 378 Minds and Machines
 PHI 487 History of Epistemology
 PHI 583 Metaphysics

*Other appropriate courses as approved by the Director of Undergraduate Studies

B. Value Theory

PHI 317 Social Contract Theory
 PHI 391 History of Ethics
 PHI 393 Contemporary Ethics
 PHI 394 Environmental Ethics
 PHI 395 Philosophy of Art
 PHI 417 Contemporary Political Philosophy
 PHI 493 Contemporary Ethical Issues

*Other appropriate courses as approved by the Director of Undergraduate Studies

C. Logic, Language and Philosophy of Science

PHI 373 Introduction to the Philosophy of Science
 PHI 375 Philosophy of Biology: What Can Evolution Explain?
 PHI 377 Philosophy of Psychology
 PHI 551 Symbolic Logic
 PHI 552 Modal Logic
 PHI 555 Philosophy of Mathematics
 PHI 565 Philosophy of Language
 PHI 573 Philosophy of Physical Science
 PHI 575 Philosophy of Social Science

*Other appropriate courses as approved by the Director of Undergraduate Studies

Philosophy Minor

Ben Bradley
 532 Hall of Languages
 315-443-5827

Requirements:

To complete a minor in philosophy, students take 18 credits, 12 of which are in philosophy courses numbered 300 or above. In order for a course to count towards a student's minor program, the student must receive a grade of C or better.

Physics Major

Director of Undergraduate Studies
 201 Physics Building
 315-443-3901

Physicists idealize the behavior of matter and energy in terms of mathematical representations called the “fundamental laws of nature” and seek to explain the properties of nuclei, atoms, molecules, and systems of these particles (gases, liquids, crystals, etc.). Undergraduate courses provide a background in classical physics, quantum mechanics, and laboratory techniques.

The department offers coursework leading to either a B.A. or a B.S. degree. The major leading to the B.S. degree is modeled on the recommendations of the American Physical Society for students intending to pursue graduate work in physics. Students submit a petition to receive a B.S. in physics and should consult the director of undergraduate studies concerning required courses. For information about certification to teach physics at the secondary school level, see “Education/Arts and Sciences (dual program)” in this section of the catalog.

Other information about physics can be found on the Internet at physics.syr.edu.

B.A. DEGREE REQUIREMENTS

The B.A. degree in physics is an important accomplishment for students considering careers in such widely varying areas as law, journalism, corporate management, and teaching. In all of these fields a liberal education incorporating serious study of a scientific discipline is an asset.

- Development of analytical and computational skills through the study of advanced undergraduate physics.
- Development of written and verbal communication skills, including the specialized skills required for the communication of technical information.
- Development of a broad understanding of the role of science and technology in modern life. The bachelor of arts degree requires completion of at least 30 credits of physics and astronomy courses.

Eight credits of lower-division courses are required :

PHY 211 General Physics I
PHY 221 General Physics Laboratory I
PHY 212 General Physics II
PHY 222 General Physics Laboratory II

Eighteen credits of upper-division physics and astronomy courses are required, including:

PHY 344 Experimental Physics
PHY 361 Modern Physics

B.S. DEGREE REQUIREMENTS

The B.S. degree is specifically designed to meet the needs of students who will pursue doctoral work in physics or another scientific or engineering discipline. The principal program is modeled on the recommendation of the American Physical Society for students intending to pursue graduate work in physics.

The B.S. degree in physics requires at least 39 credits of physics coursework, including at least 30 credits of upper-division courses (numbered 300 or above). The B.S. degree is awarded by petition to the Department of Physics based on your work on a curriculum developed with your advisor. The following is a suggested sequence leading to the B.S. degree. For additional options see the web page: physics.syr.edu

First Year

PHY 211/221, 212/222, 250
MAT 295,296

Second Year

PHY 344,360,361
MAT 397
CHE 106,107,116,117

Third Year

PHY 424,425,523,567;
MAT 485,517

Fourth Year

PHY 462,531,568

OPTION IN BIOLOGICAL AND MEDICAL PHYSICS

Sophisticated biophysical technologies are increasingly employed in medicine and other health professions; examples include ultrasound, computed tomography, magnetic resonance imaging, fiberoptic endoscopy, and laser surgery. Moreover, the rapidly advancing knowledge in the biomedical fields depend on biophysical concepts and methods, notably electrophysiology, pharmacological kinetics, and biomolecular structure determination. Accordingly, there is need for health care professionals and life scientists with ample training in the physical as well as biological sciences.

The following interdisciplinary option under the B.S. in physics is designed for students who are adept at the mathematical problem solving and conceptual aspects of physics, and who are interested in careers in biology, biological physics, medical physics, or medicine. Students with demonstrated proficiency in both physical and biological sciences will have special advantages not only for admission to and performance in graduate and professional schools, but also for their subsequent careers. More specifically, such training would be particularly relevant for the following fields of medicine: cardiology, neurology, ophthalmology, and radiology.

The following course sequence and variations meet the general prerequisites for medical school admission established by the Association of American Medical Colleges and also apply for careers in most of the other health professions. Credits are shown in square brackets and laboratory courses are indicated in bold face. Courses preceded by an asterisk are specifically required for admission to most medical schools.

First Year

General Physics I (PHY 211 [3])
Physics Laboratory (PHY 221 [1])
General Physics II (PHY 212 [3])
Physics Laboratory II (PHY 222 [1])
General Chemistry I (CHE 106 [3])
General Chemistry I - Lab (CHE 107 [1])
General Chemistry II (CHE 116 [3])
General Chemistry II - Lab (CHE 117 [1])
Calculus I (MAT 295 [4])
Calculus II (MAT 296 [4])

Second Year

General Biology w/Lab (BIO 121 [4])
General Biology w/Lab (BIO 123 [4])
Organic Chemistry (CHE 275 [3])
Organic Chemistry - Lab (CHE 276 [2])
Organic Chemistry (CHE 285 [3])
Organic Chemistry - Lab (CHE 286 [2])
Calculus III (MAT 397 [4])

Third Year

Vibrations, Waves & Optics (PHY 360 [3])

Modern Physics (PHY 361 [3])
Experimental Physics I (PHY 344 [4])
Biological and Medical Physics (PHY 315 [3])
Genetics and Cell Biology I or II (BIO 326 or
BIO 327 [3])
Structural and Physical Biochemistry (CHE 474 [3])
Electives

Fourth Year
Electromagnetics I (PHY 424 /ELE 324 [3])
Thermodynamics and Statistical Mechanics (PHY 531 [3])
Differential Equations and Matrix Algebra
(MAT 485 [3])
Electives

Seven or more credits should be selected from the following courses:

- BIO 475[2] Biochemistry Lab
- BIO 575[3] Biochemistry I
- ELE 524[3] Applied Optics (w/lab)
- MAT 517 [3] PDEs and Fourier Series
- PHY 462 [4] Experimental Physics II
- PHY 425 [3] Electromagnetics II
- PHY 523 [3] Advanced Mechanics
- PHY 567 [4] Quantum Mechanics
- PHY 576 [3] Solid-State Physics

Note: Honors Program students should register for research in a biophysics laboratory, under the auspices of BIO 460[3], CHE 450[3], or PHY 490 [3]. For students intending to apply to M.D./ Ph.D. programs, such experience in a biophysics research laboratory is strongly recommended.

Physics Minor

Director of Undergraduate Studies
201 Physics Building
315-443-3901

To complete a minor in physics, students take 20 credits in physics, PHY 211 (or PHY 215), PHY 212 (or PHY 216), PHY 221, PHY 222 are required; an additional 12 credits of coursework numbered 300 or above is required.

Physics Secondary Teacher Preparation Program

School of Education contact: Marie Sarno, Teaching and Leadership Programs, 138 Huntington Hall. mrsarno@syr.edu

This combined degree option, offered by the College of Arts and Sciences and the School of Education meets the academic requirements for a New York Teaching certification for grades 7-12 in a science area. It is an alternative to the existing undergraduate Arts and Sciences/Education dual programs in these areas, and an option that often takes less time and fewer credits than earning the entire master's degree in education after completion of a general Arts and Sciences degree.

The combined bachelor's/master's teacher preparation programs were designed to meet the needs of Arts and Sciences undergraduates who, because of a later decision to become a teacher, would need to add a semester or more to their undergraduate study to complete the existing undergraduate Arts and Sciences/Education program. It also serves those who want or need more flexibility in their undergraduate program than the dual undergraduate degree allows.

Both the Arts and Sciences undergraduate degree with a major related to the subject to be taught, and the School of Education master's degree are conferred at the same time, after all requirements are met – typically at the end of 5 years. Students begin taking education courses as undergraduates, including some in the fourth year that are taken for graduate credit, and apply to become graduate students for their last two semesters. Some summer study (not necessarily at SU) may be required.

The combined program has a two-stage admission process. The first stage involves meeting with the School of Education contact as early as possible to develop a plan, and, if a decision to pursue the program is made, completing a form signed by Education and a new declaration of program of study form in Arts and Science to declare the Arts and Sciences program with “Teacher Preparation/5 year” appended to the title Physics. The second admission stage involves an application to graduate school. Each admission stage requires a 3.0 cumulative GPA and a 3.0 GPA in the courses from the subject to be taught. The second stage also requires successful performance in the undergraduate education courses.

The choices of Arts and Sciences majors, and the course requirements for the Arts and Sciences major, the Liberal Arts Core, and other requirements related to the major are the same for these combined programs as those for students completing the dual enrollment undergraduate Arts and Sciences/Education program. These details about specific adjustments necessary to the Liberal Arts Core and to Arts and Sciences major may be found in the section describing Dual Arts and Sciences/ Education Programs.

Because of the specific course requirements and sequencing of courses, it is important that students interested in one of these programs meet with the Education contact as soon as possible to develop a plan. EDU 204, the first education course, must be taken no later than spring of the junior year.

Policy Studies Major

Policy Studies

Contact: William D. Coplin
Director, Public Affairs Program
102 Maxwell Hall
315-443-2348

Faculty Kristi J. Andersen, Douglas V. Armstrong, John S. Burdick, Elletta S. Callahan, A.H. Peter Castro, Patrick J. Cihon, William D. Coplin, Marjorie L. DeVault, Craig A. Ducezak, Donald H. Dutkowsky, Jerry Evensky, Christine L. Himes, Kathleen A. Hinchman, Sandra N. Hurd, Eric Kingson, W. Henry Lambright, Elisabeth D. Lasch-Quinn, Mary E. Lovely, Allan C. Mazur, Robert D. McClure, Don Mitchell, Mark Monmonier, Nancy R. Mudrick, Arthur Paris, William S. Pooler, Sarah B. Pralle, Grant D. Reeher, J. David Richardson, Robert A. Rubinstein, Mark Rupert, Michael Wasylenko, John C. Western, John M. Yinger

The major introduces students to historical, social, economic, and political factors shaping contemporary public policy issues. Students develop an expertise in a public policy topic area of their choice that provides a broad range of scholarly perspectives.

Students also acquire practical skills by studying policy issues through coursework in the Public Affairs Program, other departments in the College of Arts and Sciences, Human Ecology, Management, and Newhouse. Students develop skills in social science research, computer applications, written and oral communications, interpersonal relations, planning, management, and problem solving. These skills are needed to obtain desirable entry-level positions in business, government, and the non-profit sector. They also serve as excellent preparation for admission to leading law schools and public, business, and health administration, as well as other graduate programs. The skills are also essential for participating effectively as a citizen in today's world.

Several of the required major courses involve internships and policy-related field work. An integral part of the policy studies major is the completion of a research project for a government agency or community organization. This study is frequently used by graduates to display their talents to prospective employers and graduate schools. A practicum is also required in which students complete an internship or work as a research consultant on an applied project. Students complete no less than 6 and as many as 15 credits in community-based coursework.

Students take 60 percent of their coursework in a core that develops basic skills and covers essential concepts. The other 40 percent of coursework is taken in one of four topical specializations: (1) Society and the Legal System; (2) Environment; (3) Business and Government; and (4) Health, Education, and Human Services. A major in Policy Studies leads to a B.A. degree in the College of Arts and Sciences.

Before admission to the major, students must have a "B" or better in PAF 101 (Introduction to Analysis of Public Policy) and a "C" or better in MAX 201 (Quantitative Methods). Students must complete at least 35 hours of public service. An interview with Professor William D. Coplin, Director of the Public Affairs Program, is necessary before they are formally admitted as majors.

MAJOR REQUIREMENTS

Students are required to take an 18-credit core and a 12-credit topical specialization. At least six courses must be numbered 300 or above.

Core

The core introduces research skills necessary to analyze public policy issues. The following are required:

PAF 101 An Introduction to the Analysis of Public Policy
MAX 201 Quantitative Methods
PAF 315 Methods of Public Policy Analysis and Presentation
PAF 410 Practicum in Public Policy
ECN 203 Economic Ideas and Issues
MAX 123 Critical Issues for the United States

Topical Specializations

Students complete 12 credits in one of the four Topical Specializations: (1) Environment; (2) Government and Business; (3) Health, Education, and Human Services; (4) Society and the Legal System. No more than 9 credits may be taken from any department other than Public Affairs. A course selection guide that lists course options in each area is available in the Public Affairs Program office every semester prior to registration. The courses chosen are to be approved by the policy studies advisor.

Policy Studies Minor

POLICY STUDIES

Contact: William D. Coplin
Director, Public Affairs Program
102 Maxwell Hall
315-443-2348

The minor in policy studies requires 18 credits, of which at least 12 credits include courses numbered 300 or above.

Required Courses

PAF 101 An Introduction to the Analysis of Public Policy
ECN 203 Economic Ideas and Issues
PAF 410 Practicum in Public Policy

The remaining 9 credits are taken from courses numbered 300 or above within one specialization.

Policy Studies Secondary Teacher Preparation Program

Combined Bachelor's/Master's Degrees - Secondary Teacher Preparation Programs

School of Education contact: Marie Sarno, Teaching and Leadership Programs, 138 Huntington Hall. mrsarno@syr.edu

This combined degree option, offered by the College of Arts and Sciences and the School of Education meets the academic requirements for a New York Teaching certification for grades 7-12 in social studies. It is an alternative to the existing undergraduate Arts and Sciences/Education dual programs in these areas, and an option that often takes less time and fewer credits than earning the entire master's degree in education after completion of a general Arts and Sciences degree.

The combined bachelor's/master's teacher preparation programs were designed to meet the needs of Arts and Sciences undergraduates who, because of a later decision to become a teacher, would need to add a semester or more to their undergraduate study to complete the existing undergraduate Arts and Sciences/Education program. It also serves those who want or need more flexibility in their undergraduate program than the dual undergraduate degree allows.

Both the Arts and Sciences undergraduate degree with a major related to the subject to be taught, and the School of Education master's degree are conferred at the same time, after all requirements are met – typically at the end of 5 years. Students begin taking education courses as undergraduates, including some in the fourth year that are taken for graduate credit, and apply to become graduate students for their last two semesters. Some summer study (not necessarily at SU) may be required.

The combined program has a two-stage admission process. The first stage involves meeting with the School of Education contact as early as possible to develop a plan, and, if a decision to pursue the program is made, completing a form signed by Education and a new declaration of program of study form in Arts and Science to declare the Arts and Sciences program with “Teacher Preparation/5 year” appended to the title Policy Studies. The second admission stage involves an application to graduate school. Each admission stage requires a 3.0 cumulative GPA and a 3.0 GPA in the courses from the subject to be taught. The second stage also requires successful performance in the undergraduate education courses.

The choices of Arts and Sciences majors, and the course requirements for the Arts and Sciences major, the Liberal Arts Core, and other requirements related to the major are the same for these combined programs as those for students completing the dual enrollment undergraduate Arts and Sciences/Education program. These details about specific adjustments necessary to the Liberal Arts Core and to Arts and Sciences major may be found in the section describing Dual Arts and Sciences/ Education Programs.

Because of the specific course requirements and sequencing of courses, it is important that students interested in one of these programs meet with the Education contact as soon as possible to develop a plan. EDU 204, the first education course, must be taken no later than spring of the junior year.

Political Philosophy Major

Contact: John Robertson
Philosophy
530 Hall of Languages
315-443-5826
or
Elizabeth Cohen
Political Science
100 Eggers Hall
315-443-5870

Faculty See faculty listings under the programs in philosophy and in political science.

Political philosophy is reflective thought on group activity. It differs from political science in that it is a conceptual inquiry, while political science is a more empirical and practical application of that inquiry. The program enables students to pursue studies using the resources of both the philosophy department and the political science department. Students take coursework in ethics, political theory, history of political thought, law, and human nature. Some other topics of study include governmental structures and their ideal implementation, political behavior, civil liberties, the relationship between individuals and governments, and philosophy of law.

MAJOR REQUIREMENTS

The program requires a total of 30 credits.

Of these, 12 credits are selected from the following courses:

PHI 107 Theories of Knowledge and Reality
PHI 317/PSC 373 Political Philosophy: The Social Contract Tradition and its Critics
PHI 417/PSC 382 Contemporary Political Philosophy
PSC 125 Political Theory
PHI 107 may also apply toward satisfaction of the humanities divisional requirements in the Liberal Arts Core.

In addition, students choose two of the following four areas, and take nine credits in each: (1) history of political thought; (2) law; (3) ethics and politics; and (4) human nature and political theory. Each course selection needs the approval of a political philosophy advisor. The courses listed below satisfy these area requirements. However, additional courses in philosophy or political science, such as selected topics courses, may be approved, as may certain courses in other departments such as history or sociology, as well as appropriate courses given outside of the arts and sciences. Each political philosophy student consults with the advisor about course selections each semester. The illustrative examples are:

(1) History of political thought:

PSC 326/HST 383 Foundations of American Political Thought
PSC 327/HST 342 Modern American Political Thought
PSC 371 Democratic Theory and Politics

PSC 372 Marxist Theory
PHI 418/618 Hegel, Marx, and Nietzsche

(2) Law:

ECN 575/LAW 733 Law and Market Economy
PSC 324 Constitutional Law I
PSC 325 Constitutional Law II
PSC 352 International Law
PSC/WGS 374 Law and Society
PSC 375/PHI 397 Philosophy of Law

(3) Ethics and politics:

PHI 393 Contemporary Ethics
PHI 493 Contemporary Ethical Issues
PSC/WGS 356 Political Conflict
PSC 376 Revolution and Civil Violence
ANT 483/683 Social Movement Theory
PHI 343 Philosophy of Education
PHI/PSC 379 American Slavery and the Holocaust
PHI 422/622 20th-Century French and German Philosophy

(4) Human nature and political theory:

ANT 415 Culture and Personality
PHI 197 Human Nature
PHI 391 History of Ethics
PSC/WGS 319 Gender and Politics
PSC 337 Political Psychology
PHI 377 Philosophy of Psychology
SOC 335/635 Political Sociology
SOS/PHI 575 Philosophy of Social Science
WGS 301 Feminist Theory

Political Science Major

Chair Mark Rupert
100 Eggers Hall
315-443-2416

Political science is the study of politics, government, and their relationship with other aspects of society. Courses in political science enable students to use political theory and empirical analyses to make sense of their world, to interpret political phenomena in the United States and in other areas of the world, and to understand world politics. Skills in research, analysis, and critical thinking that political science students acquire help to prepare them for careers in politics and government, journalism and communication, and business, as well as post-graduate study.

Note: Students are required to fulfill the requirements for the B.A. or minor in political science as stipulated in the course catalog for the academic year in which they declare their political science major or minor. Graduation with a B.A. or a minor in political science requires a 2.0 average in the upper-division coursework applied toward the major or minor.

MAJOR REQUIREMENTS

To declare a political science major, students must have a B or better in two introductory courses (PSC 121 or 129,123,124 or 139,125,202, MAX 123, or MAX 132). The B.A. in political science requires 30 credits, including PSC 121, one additional course at the 100 level, and PSC 202. Of the remaining 21 credits, 18 are taken in courses numbered 300 or above. An additional 3 credits may be taken at the 100 level as part of the remaining 21 credits, but no more than a total of 9 credits may be taken at the 100 level. The upper-division courses regularly offered by the department are included in the list below. PSC majors must take at least one course from the approved list of courses with international content (approved courses are designated with an asterisk [*], see list below). Political science majors must take at least 9 credits of coursework included in one cluster of related upper-division courses. (Clusters are listed below.) Experience credit courses may not be used to satisfy major requirements. Political science majors seeking a degree with honors must satisfy the requirements of the Honors Program in addition to the requirements for the major in political science.

DISTINCTION IN POLITICAL SCIENCE

Minimum Department GPA 3.5
Minimum Cumulative GPA 3.5

Award of Distinction in Political Science requires successful completion of 6 credits of distinction thesis preparatory coursework (PSC 495 and PSC 496) and successful defense of written thesis.

COURSES

The courses regularly offered by the department for application toward a major or minor are listed below. Special topics courses (PSC 300, PSC 411) and courses which may be taken multiple times (PSC 350) may be included in a cluster with the approval of the undergraduate advisor. Courses taken abroad may also count with the approval of the undergraduate advisor. Finally, students may petition to construct their own cluster; this petition will be considered by the department's Undergraduate Studies Committee.

PSC 121 American National Government and Politics
PSC 122 American State & Local Government and Politics
PSC 123* Comparative Government and Politics
PSC 124* International Relations
PSC 125 Political Theory
PSC 129 American National Government and Politics (Honors)
PSC 139* International Relations (Honors)
PSC 202 Introduction to Political Analysis
PSC 317 Local Internship

Law and politics

PSC 304 The Judicial Process
PSC 316 Supreme Court in U.S. Politics
PSC 324 Constitutional Law I
PSC 325 Constitutional Law II
PSC 352* International Law
PSC/WGS 374 Law and Society
PSC 375/PHI 397 Philosophy of Law
PSC/QSX 384 Sexuality and the Law

Public policy

PSC 302 Environmental Politics and Policy
PSC 305 The Legislative Process and the U.S. Congress
PSC 308 The Politics of U.S. Public Policy
PSC 309 Interest Group Politics
PSC 312 Urban Government and Politics
PSC 318 Technology, Politics, and Environment
PSC 323 Politics of the Executive Branch
PSC 357* U.S. Foreign Policy
PSC 359* Foreign Policymaking
PSC 361* Politics in the Cyber-Age
PSC 369* Global Migration
PSC 427* Policy Seminar / Contemporary Europe

Political Economy

PSC/LAS 333* Politics of Latin America
PSC 335* Politics of East Asia
PSC 355* International Political Economy
PSC/AAS 365* International Political Economy of the Third World
PSC/MES 367* Oil, Water, and War
PSC 369* Global Migration
PSC 425* Hong Kong in the World Political Economy

Parties and Elections

PSC 305 The Legislative Process and the U.S. Congress
PSC 309 Interest Group Politics
PSC 311 American Political Parties
PSC 313 Campaign Analysis
PSC 314 Public Opinion and Electoral Behavior
PSC 338* Comparative Political Parties

American Politics and History

PSC 303 Rise of the National Government
PSC 305 The Legislative Process and the U.S. Congress
PSC/AAS 306 African American Politics
PSC 311 American Political Parties
PSC 324 Constitutional Law I
PSC 325 Constitutional Law II
PSC 326/HST 383 Foundations of American Political Thought
PSC 327/HST 342 Modern American Political Thought
PSC 328/WGS 318 American Social Movements
PSC 329/HST 341 The Modern American Presidency
PSC/PHI/JSP 379 American Slavery and the Holocaust

Comparative Politics

PSC 331* Government and Politics of Canada
PSC 332* Politics of Post-Communist Europe
PSC/LAS 333* Politics of Latin America

PSC 335* Politics of East Asia
 PSC 339* Contemporary Political Transitions
 PSC/AAS 341* Politics of Africa
 PSC/MES/REL/JSP 342* Religion in the Israeli-Palestinian Conflict
 PSC 343* Politics of Western Europe
 PSC/MES 344* Politics of the Middle East
 PSC/MES 345* Islam and Politics in Asia
 PSC/AAS 346* Comparative Third World Politics
 PSC 347* Politics of Russia
 PSC/MES 349* Politics of Iran
 PSC/AAS 364* African International Relations
 PSC/AAS 365* International Political Economy of the Third World
 PSC/MES 366* Representations of the Middle East
 PSC/MES/HST 368* Islam and the West
 PSC 401* Government and Politics in Great Britain
 PSC 402* Government and Politics in Italy
 PSC 403* Government and Politics in France
 PSC 404* Government and Politics in Spain
 PSC 405* Politics of the European Union
 PSC/SOC/SOS 407* Political Integration and Disintegration in Western Europe
 PSC 409* The European Union
 PSC 414* European Identity Seminar
 PSC/HST/IRP/LAS 424* Dictatorships, Human Rights, and Historical Memory
 PSC 425* Hong Kong in the World Political Economy
 PSC 427* Policy Seminar / Contemporary Europe
 PSC 428/IRP/LAS 334* Issues in Contemporary Latin America
 PSC 429* European Human Rights
 PSC 431/IRP 515* China in Transition
 PSC/HST 453* Twentieth-Century Europe
 PSC 473* London Seminar

Political Participation and Mobilization

PSC 302 Environmental Politics and Policy
 PSC 309 Interest Group Politics
 PSC 311 American Political Parties
 PSC 314 Public Opinion and Electoral Behavior
 PSC/WGS 319 Gender and Politics
 PSC 328/WGS 318 American Social Movements
 PSC 336* Political Leadership
 PSC 337* Political Psychology
 PSC/MES/REL/JSP 342* Religion in the Israeli-Palestinian Conflict
 PSC/WGS 356* Political Conflict
 PSC 386/WGS/SOC 354* Gender, Militarism and War
 PSC/SOS 408* Comparative Social Movements
 PSC/PHI/WGS 413 Identity and Difference
 PSC 414* European Identity Seminar

Citizenship and Democracy

PSC 307 The Politics of Citizenship
 PSC 326/HST 383 Foundations of American Political Thought
 PSC 327/HST 342 Modern American Political Thought
 PSC/LAS 333* Politics of Latin America
 PSC 336* Political Leadership
 PSC 339* Contemporary Political Transitions
 PSC 369* Global Migration
 PSC 371 Democratic Theory and Politics
 PSC 383 Civil Society and Democracy
 PSC/PHI 406* Citizenship from Modernity to Globalization

Global Governance and Foreign Policy

PSC 350* Problems in International Relations
 PSC 352* International Law
 PSC 353* International Organizations
 PSC 354* Human Rights and Global Affairs
 PSC 355* International Political Economy
 PSC 357* American Foreign Policy
 PSC/LAS 358* Inter-American Relations
 PSC 359* Foreign Policymaking
 PSC/PHI 363* Ethics and International Relations
 PSC 405* Politics of the European Union
 PSC/SOC/SOS 407* Political Integration and Disintegration in Western Europe
 PSC/IRP 412* Global Governance: The United Nations System
 PSC 414* European Identity Seminar

Political Thought and Philosophy

PSC 326/HST 383 Foundations of American Political Thought
PSC 327/HST 342 Modern American Political Thought
PSC/MES 366* Representations of the Middle East
PSC 371 Democratic Theory
PSC 372 Marxist Theory
PSC 373/PHI 317 Political Philosophy: The Social Contract and Its Critics
PSC 381 Political Fiction and Film
PSC 382/PHI 417 Contemporary Political Philosophy
PSC 383 Civil Society and Democracy
PSC 385 Rationality and Politics
PSC/PHI 406* Citizenship from Modernity to Globalization

Political Violence and Conflict

PSC/MES/REL/JSP 342* Religion in the Israeli-Palestinian Conflict
PSC 348* Politics and the Military
PSC 354* Human Rights and Global Affairs
PSC/WGS 356* Political Conflict
PSC/PHI 363* Ethics and International Relations
PSC/MES 367* Oil, Water & War
PSC 376* Revolution and Civil Violence
PSC 377 Religion and Politics
PSC/PHI/JSP 379* American Slavery & the Holocaust
PSC 386/WGS/SOC 354* Gender, Militarism and War
PSC 429* European Human Rights

Political Science Minor

Chair Mark Rupert
100 Eggers Hall
315-443-2416

Political science is the study of politics, government, and their relationship with other aspects of society. Courses in political science enable students to use political theory and empirical analyses to make sense of their world, to interpret political phenomena in the United States and in other areas of the world, and to understand world politics. Skills in research, analysis, and critical thinking that political science students acquire help to prepare them for careers in politics and government, journalism and communication, and business, as well as post-graduate study.

Note: Students are required to fulfill the requirements for the B.A. or minor in political science as stipulated in the course catalog for the academic year in which they declare their political science major or minor. Graduation with a B.A. or a minor in political science requires a 2.0 average in the upper-division coursework applied toward the major or minor.

MINOR REQUIREMENTS

The minor in political science requires 18 credits of coursework. Students are required to take one of the following courses at the 100 level: PSC 121 or PSC 129, PSC 122, PSC 123, PSC 124 or PSC 139, or PSC 125. Of the remaining 15 credits, 12 are taken in courses numbered 300 or above. The remaining 3 credits may be taken at either the 100 level or in a course numbered 300 or above. PSC minors must take at least one course from the approved list of courses with international content (approved courses are designated with an asterisk [*], see list below).

COURSES

The courses regularly offered by the department for application toward the minor are listed below. Courses taken abroad may also count with the approval of the undergraduate advisor.

PSC 121 American National Government and Politics
PSC 122 American State & Local Government and Politics
PSC 123* Comparative Government and Politics
PSC 124* International Relations
PSC 125 Political Theory
PSC 129 American National Government and Politics (Honors)
PSC 139* International Relations (Honors)
PSC 202 Introduction to Political Analysis
PSC 317 Local Internship

Law and politics

PSC 304 The Judicial Process
PSC 316 Supreme Court in U.S. Politics
PSC 324 Constitutional Law I
PSC 325 Constitutional Law II
PSC 352* International Law
PSC/WGS 374 Law and Society
PSC 375/PHI 397 Philosophy of Law

Public policy

PSC 302 Environmental Politics and Policy
PSC 305 The Legislative Process and the U.S. Congress
PSC 308 The Politics of U.S. Public Policy
PSC 309 Interest Group Politics
PSC 312 Urban Government and Politics
PSC 318 Technology, Politics, and Environment
PSC 323 Politics of the Executive Branch
PSC 357* U.S. Foreign Policy
PSC 359* Foreign Policymaking
PSC 361* Politics in the Cyber-Age
PSC 369* Global Migration
PSC/PAF 418* Comparative Public Policy in Practice
PSC 427* Policy Seminar / Contemporary Europe

Political Economy

PSC/LAS 333* Politics of Latin America
PSC 335* Politics of East Asia
PSC 355* International Political Economy
PSC/AAS 365* International Political Economy of the Third World
PSC/MES 367* Oil, Water, and War
PSC 369* Global Migration
PSC 425* Hong Kong in the World Political Economy

Parties and Elections

PSC 305 The Legislative Process and the U.S. Congress
PSC 309 Interest Group Politics
PSC 311 American Political Parties
PSC 313 Campaign Analysis
PSC 314 Public Opinion and Electoral Behavior
PSC 338* Comparative Political Parties

American Politics and History

PSC 303 Rise of the National Government
PSC 305 The Legislative Process and the U.S. Congress
PSC/AAS 306 African American Politics
PSC 311 American Political Parties
PSC 324 Constitutional Law I
PSC 325 Constitutional Law II
PSC 326/HST 383 Foundations of American Political Thought
PSC 327/HST 342 Modern American Political Thought
PSC 328/WGS 318 American Social Movements
PSC 329/HST 341 The Modern American Presidency
PSC/PHI/JSP 379 American Slavery and the Holocaust

Comparative Politics

PSC 331* Government and Politics of Canada
PSC 332* Politics of Post-Communist Europe
PSC/LAS 333* Politics of Latin America
PSC 335* Politics of East Asia
PSC 339* Contemporary Political Transitions
PSC/AAS 341* Politics of Africa
PSC/MES/REL/JSP 342* Religion in the Israeli-Palestinian Conflict
PSC 343* Politics of Western Europe
PSC/MES 344* Politics of the Middle East
PSC/MES 345* Islam and Politics in Asia
PSC/AAS 346* Comparative Third World Politics
PSC 347* Politics of Russia
PSC/MES 349* Politics of Iran
PSC/AAS 364* African International Relations
PSC/AAS 365* International Political Economy of the Third World
PSC/MES 366* Representations of the Middle East
PSC/MES/HST 368* Islam and the West
PSC 401* Government and Politics in Great Britain
PSC 402* Government and Politics in Italy
PSC 403* Government and Politics in France
PSC 404* Government and Politics in Spain
PSC 405* Politics of the European Union
PSC/SOC/SOS 407* Political Integration and Disintegration in Western Europe
PSC 409* The European Union

PSC 414* European Identity Seminar
PSC/HST/IRP/LAS 424* Dictatorships, Human Rights, and Historical Memory
PSC 425* Hong Kong in the World Political Economy
PSC 427* Policy Seminar / Contemporary Europe
PSC 428/IRP/LAS 334* Issues in Contemporary Latin America
PSC 429* European Human Rights
PSC 431/IRP 515* China in Transition
PSC/HST 453* Twentieth-Century Europe
PSC 473* London Seminar

Political Participation and Mobilization

PSC 302 Environmental Politics and Policy
PSC 309 Interest Group Politics
PSC 311 American Political Parties
PSC 314 Public Opinion and Electoral Behavior
PSC/WGS 319 Gender and Politics
PSC 328/WGS 318 American Social Movements
PSC 336* Political Leadership
PSC 337* Political Psychology
PSC/MES/REL/JSP 342* Religion in the Israeli-Palestinian Conflict
PSC/WGS 356* Political Conflict
PSC 386/WGS/SOC 354* Gender, Militarism and War
PSC/SOS 408* Comparative Social Movements
PSC/PHI/WGS 413 Identity and Difference
PSC 414* European Identity Seminar

Citizenship and Democracy

PSC 307 The Politics of Citizenship
PSC 326/HST 383 Foundations of American Political Thought
PSC 327/HST 342 Modern American Political Thought
PSC/LAS 333* Politics of Latin America
PSC 336* Political Leadership
PSC 339* Contemporary Political Transitions
PSC 369* Global Migration
PSC 371 Democratic Theory and Politics
PSC 383 Civil Society and Democracy
PSC/PHI 406* Citizenship from Modernity to Globalization

Global Governance and Foreign Policy

PSC 350* Problems in International Relations
PSC 352* International Law
PSC 353* International Organizations
PSC 354* Human Rights and Global Affairs
PSC 355* International Political Economy
PSC 357* American Foreign Policy
PSC/LAS 358* Inter-American Relations
PSC 359* Foreign Policymaking
PSC/PHI 363* Ethics and International Relations
PSC 405* Politics of the European Union
PSC/SOC/SOS 407* Political Integration and Disintegration in Western Europe
PSC/IRP 412* Global Governance: The United Nations System
PSC 414* European Identity Seminar

Political Thought and Philosophy

PSC 326/HST 383 Foundations of American Political Thought
PSC 327/HST 342 Modern American Political Thought
PSC/MES 366* Representations of the Middle East
PSC 371 Democratic Theory
PSC 372 Marxist Theory
PSC 373/PHI 317 Political Philosophy: The Social Contract and Its Critics
PSC 381 Political Fiction and Film
PSC 382/PHI 417 Contemporary Political Philosophy
PSC 383 Civil Society and Democracy
PSC 385 Rationality and Politics
PSC/PHI 406* Citizenship from Modernity to Globalization

Political Violence and Conflict

PSC/MES/REL/JSP 342* Religion in the Israeli-Palestinian Conflict
PSC 348* Politics and the Military
PSC 354* Human Rights and Global Affairs

PSC/WGS 356* Political Conflict
PSC/PHI 363* Ethics and International Relations
PSC/MES 367* Oil, Water & War
PSC 376* Revolution and Civil Violence
PSC 377 Religion and Politics
PSC/PHI/JSP 379* American Slavery & the Holocaust
PSC 386/WGS/SOC 354* Gender, Militarism and War
PSC 429* European Human Rights

Political Science Secondary Teacher Preparation Program

138 Huntington Hall

mrsarno@syr.edu

This combined degree option, offered by the College of Arts and Sciences and the School of Education meets the academic requirements for a New York Teaching certification for grades 7-12 in social studies. It is an alternative to the existing undergraduate Arts and Sciences/Education dual programs in these areas, and an option that often takes less time and fewer credits than earning the entire master's degree in education after completion of a general Arts and Sciences degree.

The combined bachelor's/master's teacher preparation programs were designed to meet the needs of Arts and Sciences undergraduates who, because of a later decision to become a teacher, would need to add a semester or more to their undergraduate study to complete the existing undergraduate Arts and Sciences/Education program. It also serves those who want or need more flexibility in their undergraduate program than the dual undergraduate degree allows.

Both the Arts and Sciences undergraduate degree with a major related to the subject to be taught, and the School of Education master's degree are conferred at the same time, after all requirements are met – typically at the end of 5 years. Students begin taking education courses as undergraduates, including some in the fourth year that are taken for graduate credit, and apply to become graduate students for their last two semesters. Some summer study (not necessarily at SU) may be required.

The combined program has a two-stage admission process. The first stage involves meeting with the School of Education contact as early as possible to develop a plan, and, if a decision to pursue the program is made, completing a form signed by Education and a new declaration of program of study form in Arts and Science to declare the Arts and Sciences program with “Teacher Preparation/5 year” appended to the title Political Science. The second admission stage involves an application to graduate school. Each admission stage requires a 3.0 cumulative GPA and a 3.0 GPA in the courses from the subject to be taught. The second stage also requires successful performance in the undergraduate education courses.

The choices of Arts and Sciences majors, and the course requirements for the Arts and Sciences major, the Liberal Arts Core, and other requirements related to the major are the same for these combined programs as those for students completing the dual enrollment undergraduate Arts and Sciences/Education program. These details about specific adjustments necessary to the Liberal Arts Core and to Arts and Sciences major may be found in the section describing Dual Arts and Sciences/ Education Programs.

Because of the specific course requirements and sequencing of courses, it is important that students interested in one of these programs meet with the Education contact as soon as possible to develop a plan. EDU 204, the first education course, must be taken no later than spring of the junior year.

Psychology Major

Peter Vanable, Chair
430 Huntington Hall
315-443-2354.

Faculty Benita A. Blachman, Kate B. Carey, Michael P. Carey, D. Bruce Carter, Catherine A. Cornwell, Amy H. Criss, Jerome B. Dusek, Tanya L. Eckert, Craig K. Ewart, Richard M. Gramzow, Marc W. Howard, William J. Hoyer, Randall S. Jorgenson, Lawrence J. Lewandowski, Stephen Maisto, Brian K. Martens, Kevin S. Masters, Leonard Newman, Stephanie Ortigue, Tibor Palfai, Aesoon Park, Joshua M. Smyth, Peter A. Vanable, Bradley Wyble

Psychology is the scientific study of behavior. Professional psychologists may be researchers investigating behavior and/or practitioners, applying their knowledge and skills to individual and social problems.

The psychology department offers several options for students. These include a bachelor of arts major, bachelor of science major, and a minor.

Students planning to pursue a career in which a background in psychology is useful, such as business, communications, or social services, will find the B.A. degree to be an appropriate track. These students are encouraged to pursue experiences through part-time work or internships in their area of interest. Students interested in pursuing professional careers in psychology, social work, or other professional fields such as law will need to attend graduate school and obtain an advanced degree. These students are encouraged to consult with their academic advisor for advice on whether the B.A. or B.S. degree is most appropriate to meet their long-term goals. The B.S. degree is recommended for students planning professional careers in such fields as medicine, dentistry, and physical therapy. All students should consult regularly with their faculty advisor in planning a program of study that is consistent with their future academic and career goals. All students are encouraged to utilize the career resources available in the Department of Psychology, the College of Arts and Sciences, and the University to learn about opportunities and prepare strategies to meet their goals.

Admission to graduate school in psychology is extremely competitive. While neither the BA nor the BS degree is viewed preferentially for admission to graduate training in psychology, the BS degree is specifically designed to provide the kinds of experiences needed to students planning to pursue graduate training in psychology. Admissions committees examine applications for evidence of both depth and breadth of preparation. Undergraduate courses emphasizing the science of psychology, laboratory courses in psychology, courses in experimental psychology and statistics, and research oriented courses across a spectrum of areas are desirable preparation for graduate school. Supervised research experience is also very important. See your advisor for further information.

GENERAL REQUIREMENTS AND RECOMMENDATIONS

For the B.A. and B.S. degrees, courses credited toward the major must be completed at Syracuse University unless a waiver is granted by the Department of

Psychology. No more than three hours of experience credit (PSY 270/470) may be applied toward the minimum number of hours required for the major.

Students seeking the B.A. or B.S. degree must begin by taking PSY 205 Foundations of Human Behavior (or the Honors equivalent, PSY 209). PSY 205 or PSY 209 is a prerequisite for all other psychology courses except PSY 252. . All majors also must complete PSY 313 Introduction to Research Methodology. Majors must satisfy a two-semester statistics sequence which also satisfies the quantitative skills requirement of the Liberal Arts Core. The possible sequences are: MAT 121,122; MAT 221,222; MAT 121 or MAT 221 followed by PSY 252. The preferred sequence is MAT 221 and PSY 252. It is recommended that students complete the required statistics sequence and methods course as soon as possible. In some instances PSY 252 and/or PSY 313 are prerequisites to a laboratory or other course, so those planning on taking laboratory courses in psychology will find it beneficial to complete the required statistics sequence and methods course early in their studies.

Students planning on completing the B.S. degree requirements (described below), and those students planning on taking laboratory courses are advised to plan their program of study carefully because spaces in laboratory courses are limited. This makes it essential for students to plan carefully for completing the required lecture-laboratory sequences.

Students interested in taking a psychology class at another institution and transferring it to Syracuse University to count toward either the major or minor must complete a petition form (available in the dean's office and on the department web site) and bring it and a syllabus for the course to the Associate Chair for Curriculum for approval prior to enrolling in the course. No online classes are accepted as transfer credit.

It is essential that all students plan their program of study carefully in consultation with their academic advisor in order to insure timely completion of degree requirements.

ADDITIONAL REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

The B.A. requires a minimum of 30 credits in psychology courses, including the required PSY 205 and PSY 313, 18 of which must be numbered 300 or above. In addition, one 3-credit course must be completed in each of the four areas of psychology described below. A single course may be used to satisfy requirements in only one area. Students may petition to have psychology (i.e., PSY) courses not listed in the four groups (e.g., PSY 400) count as completing a group requirement.

Cognitive/Neuroscience

- PSY 223 Introduction to Biopsychology
- PSY 315 Drugs and Human Behavior
- PSY 321 Introduction to Sensation and Perception
- PSY 322 Cognitive Psychology
- PSY 323 Brain and Behavior
- PSY 324 Developmental Biopsychology
- PSY 373 Human Memory
- PSY 426 Cognitive Neurochemistry
- PSY 437 Cognition and Aging

Developmental/Educational

- PSY 335 Psychology of Childhood
- PSY 336 Psychology of the Adolescent
- PSY 337 Psychology of Adult Life: Maturity and Old Age
- PSY 353 Psychological Measurement
- PSY 365 Educational Psychology
- PSY 432 Applied Behavior Analysis with Children and Youth

Social/Personality

- PSY 274 Social Psychology
- PSY 382 Health Psychology
- PSY 392 Stress and Health
- PSY 393 Personality

Clinical/Health

- PSY 315 Drugs and Human Behavior
- PSY/WGS 329 Biopsychological Perspectives of Women's Health
- PSY 353 Psychological Measurement
- PSY 382 Health Psychology
- PSY 384 Health and Behavior
- PSY 392 Stress and Health
- PSY 393 Personality
- PSY 395 Abnormal Psychology
- PSY 415 Introduction to Clinical Psychology
- PSY 431 Alcohol Use and Abuse
- PSY 432 Applied Behavior Analysis with Children and Youth
- PSY 445 Behavior Disorders in Children

ADDITIONAL REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE

In order to receive a B.S. degree, students must complete courses in Psychology, mathematics, and the natural sciences. Students must file a petition, signed by their advisor and the Associate Chair for Curriculum of the Psychology Department, requesting a B.S. degree.

Students who declared the Psychology major prior to August 1, 2009 may complete the old requirements (see the Associate Chair for Curriculum of the Psychology Department) or the requirements listed below. All others must complete the requirements listed below.

REQUIREMENTS

Although many students successfully enter graduate training with the B.A. degree, the new B.S. degree is designed for the truly exceptional student who is interested in pursuing graduate study in psychology.

Because the B.S. degree involves obtaining a faculty sponsor in the Department of Psychology in addition to working with a faculty member on research and taking traditional courses, it is essential that the student interested in the B.S. degree become familiar with, and known to, the faculty. This can be accomplished through taking courses, getting involved in research projects early in one's career, and otherwise taking part in opportunities within the department (e.g., attending Research Night, Psych Club, Psi Chi). The student interested in the B.S. degree is encouraged to meet with the Associate Chair for Curriculum or the Director of Student Development to discuss the various opportunities available.

In order to receive a B.S. degree, students must first obtain a faculty sponsor who will direct the student's required research experience courses and advise about and approve the student's required 9 credits (3 courses) in the mathematics and science areas of the Liberal Arts Core. Students must obtain a Department of Psychology B.S. Degree Declaration Form from the Associate Chair for Curriculum, complete it, and have the faculty sponsor sign it before the last class day in September of the student's junior year.

Psychology Requirements

Required Courses in Psychology

Students are required to complete PSY 205 Foundations of Human Behavior and PSY 313 Introduction to Research Methodology and a total of at least 30 credits in PSY courses. PSY 205, PSY 313, and the PSY classes taken to meet the lecture laboratory, Research In..., and elective requirements as described below count toward the 30 required credits. If PSY 252 is taken to complete the required statistics sequence described below it also counts as part of the 30 required credits.

Students are required to complete one lecture-laboratory sequence (5-6 credits) from among the offerings of the Department of Psychology. The following courses qualify for this requirement.

PSY 321, 331 Introduction to Sensation and Perception
PSY 322, 332 Cognitive Psychology
PSY 324, 334 Developmental Biopsychology
PSY 382, 383 Health Psychology
PSY 442, 443 Research Methods in Child Psychology
PSY 471, 472 Experimental Social Psychology

Since not all these courses are taught every year students need to plan ahead to be certain they complete one of these sequences. There are no substitutions for this requirement.

Students must complete 4 credits of directed research experience by enrolling in courses titled Research In... (PSY 291, 294 and PSY 491, 494). These 4 credits are directed by the student's B.S. degree sponsor. There are no substitutions for this requirement.

Elective Courses in Psychology

One 3-credit course is required in each of the four major areas described above in conjunction with the B.A. degree requirements. A minimum of one additional elective course in psychology also is required as part of the psychology electives. A lecture course used to complete the required lecture-laboratory sequence in psychology, as described below, MAY NOT be used to complete any course in this requirement.

Mathematics and Natural Sciences Requirements

The requirements in this area include coursework in psychology, the natural sciences, and mathematics.

Students must complete a two-semester statistics sequence. MAT 221 and PSY 252 is the recommended, but not only, sequence.

A one-year lecture-laboratory sequence in the natural sciences is required. It must be from among the offerings in biology (BIO 121, BIO 123 and BIO 124), chemistry (CHE 106/116 and CHE 107/117; CHE 109/119 and CHE 129/139), or physics (PHY 101 and PHY 102; PHY 211/221 and PHY 212/222; PHY 215/221 and PHY 216/222). If there is any question concerning the appropriateness of a course to count toward the B.S. degree requirements, the student should consult the Associate Chair for Curriculum of the Psychology Department.

In addition, students must select, in consultation with their sponsor, three courses (9 credits) in the mathematics and sciences areas of the Liberal Arts Core, outside the Psychology Department, that will enhance the student's research experience. These courses must be approved by the student's B.S. degree sponsor.

Transfer Credit/AP Credit/CLEP Credit

Students who wish to fulfill any of the above requirements with transfer, AP, or CLEP credit should consult the Associate Chair for Curriculum in the Psychology Department, who will determine if the transfer, AP, or CLEP credit meets the requirements.

Psychology Minor

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Requirements

The minor in psychology provides those students majoring in another discipline with a breadth or depth of experience in psychology to complement their major. To complete the minor, students complete 18 credits of psychology, including PSY 205, of which 12 must be numbered 300 or above. No more than 3 credits of experience credit (PSY 270 or 470), independent study (PSY 290 or 490), or Research in (PSY 291, 292, 293, 294, 491, 492, 493, or 494) may be counted in the minimal credit hours for the minor in psychology. Courses credited toward the minor must be completed at Syracuse University unless a waiver is granted by the Department of Psychology. A limit of 3 transfer credits may be applied with permission. Minors can be designed in consultation with the major advisor and/or the Associate Chair for Curriculum in the psychology department.

Religion Major

James Watts, Chair
501 Hall of Languages
315-443-5713

Faculty Philip P. Arnold, Zachary J. Braiterman, John D. Caputo, Ronald R. Cavanagh, Gareth J. Fisher, Ken Frieden, Ann Grodzins Gold, M. Gail Hamner, Tazim R. Kassam, Patricia Cox Miller, Edward F. Mooney, R. Gustav Niebuhr, Marcia C. Robinson, Joanne P. Waghorne, Ernest E. Wallwork, James W. Watts

Knowledge of religion is critical in today's world. The academic study of religion at Syracuse University offers students the opportunity to explore religion in a cross-cultural and interdisciplinary context. Students who take courses in religion learn to interpret the dynamics of religious convictions, actions, and expressions.

Religious traditions and practices engage such questions as: What kind of life is most worth living? How do we understand the nature of the world? How do we relate to ourselves and to others?

Students study religious life and thought from the perspectives of arts, ethics, gender, history, literature, mythology, philosophy, political theory, psychology, scriptural studies, social sciences, and theology.

The academic study of religion is a critical undertaking and an often transforming experience introducing students to unfamiliar aspects of their own world, and to the religious realities of our global situation.

The Department of Religion has articulated three goals that shape its teaching and its expectations of what students in its courses and programs may expect to gain from this study:

1. to understand better the nature and diversity of religious expressions in the contemporary world and in history, and their power in peoples' personal and collective lives;
2. to think more deeply and critically about religious experience and its modes of expression and forms of interpretation;
3. to recognize and appreciate the difficulties and possibilities in a disciplined study of religion; and to become aware of a diversity of approaches and methods within that study.

MAJOR REQUIREMENTS

The major requires 30 credits of appropriate work, approved in consultation with the Director of Undergraduate Studies. Because of the interdisciplinary character of religion courses, it is crucial that the following clusters (in depth and breadth/diversity) be delineated and approved in consultation with the Director of Undergraduate Studies, in keeping with the following conditions:

1. at least four courses that ensure depth by clustering around one of the following:
 1. a particular tradition (e.g., Buddhism, Judaism)
 2. a particular geographical area or historical period (e.g., America, South Asia)
 3. a particular thematic (e.g., philosophy, popular culture)
2. at least three courses that ensure breadth and/or diversity of study, as decided in consultation with the Director of Undergraduate Studies.
3. REL 391
4. of the 10 courses, 6 must be at the 300 level or above.
5. up to 6 credits may be earned in individualized work within the Department of Religion (e.g., independent study, honors thesis).
6. up to 6 credits may be earned in advisor-approved courses outside the Department of Religion.

Introductory Courses

REL 101 Religions of the World
REL 102 Religion Today in a Globalizing World
REL 103 Religion and Sports
REL 104 Religion and Science
REL/JSP 107 Religion, Literature, and Film
REL/JSP 114 The Bible
REL 120 Introduction to the Study of Religion
REL 121 Pilgrimage
REL/SAS 123 Religious Auto/Biography
REL/JSP/LIT 131 Great Jewish Writers
REL/JSP 135 Judaism
REL/NAT 142 Native American Religions
REL 156 Christianity
REL/SAS 165 Islam
REL/SAS 185 Hinduism
REL/SAS 186 Buddhism
REL 191 Religion, Meaning, and Knowledge
REL 205 Ancient Greek Religion
REL 206 Greco-Roman Religion
REL/JSP 215 Hebrew Bible
REL 217 The New Testament
REL 227 Gods: A Cross-Cultural Gallery
REL/LIT/JSP 231 Judaic Literature
REL 241 Religious Diversity in America
REL 242 Religious Issues in American Life
REL/NAT 244/ANT 273 Indigenous Religions

REL 246 Religion and Popular Culture
REL 252 Religious Ethics and Social Issues
REL 255 Depth Psychology and Religious Ethics
REL 281/AAS 241 African Religions: An Introduction
REL/SAS 283 India's Religious Worlds
REL 291 Comparative Themes and Issues
REL 294 Mythologies
REL 295 Religion and Art

Advanced Courses

REL 300 Selected Topics
REL 301 Ancient Near Eastern Religions and Cultures
REL/JSP 307 The Temple and the Dead Sea Scrolls
REL 309 Early Christianities
REL/JSP 311 The Bible as Literature
REL 320 Religion and Culture
REL 324 Religion and Storytelling
REL 326 Religion and Film
REL/JSP 331 European and American Judaic Literature
REL/LIT/JSP 333 Yiddish Literature in Translation
REL/JSP 334 Modern Judaism
REL/JSP/LIT 335 Israeli Literatures and Culture
REL/JSP 337 Shoah: Responding to the Holocaust
REL/WGS 341/HST 387 Women, Abolition, and Religion in 19th-Century America
REL 343 American Religions and the News Media
REL/AAS 345 African American Religious History
REL/NAT 347 Religion and the Conquest of America
REL/NAT 348 Religion and American Consumerism
REL 351 Theorizing Religion, Culture, Theology
REL 352 Sociology of Religion and Morals
REL 353 Religion and Nature
REL 355/PSC/SOC 362 Religion, Identity, and Power
REL 358 Critical Issues in Religious Thought
REL 364 Islamic Literatures
REL/SAS 367 Islamic Art and Aesthetics
REL 375 Religion and Ethics in Post-Freudian Depth Psychologies
REL/SAS/WGS 384 Goddesses, Women, and Power in Hinduism
REL 385 Religion in Chinese Society
REL 386 Studies in Buddhism
REL 391 Advanced Religion Seminar
REL 395 Religions and the Natural Environment
REL 396 Mysticism
REL 400 Selected Topics
REL/ANT/HST/WGS 409 A History of Witchcraft
REL/CLA/LIT 421 Classical Mythology
REL/PHI/JSP 435 Modern Judaic Thought
REL/JSP 439 Senior Seminar in Judaic Studies
REL 440 Modern Religious Thought
REL 449 Religious Dimensions of Whiteness
REL/SAS/WGS 465 Gender, Politics and Islamic Societies
REL 470 Experience Credit
REL/ANT 471 Religion and Society in Brazil
REL 487/687 Global Hinduism
REL 490 Independent Study
REL 498 Thesis Preparation
REL 499 Honors Thesis
REL 500 Selected Topics in Religion
REL/JSP 516 The Torah/Pentateuch
REL/AAS 543 Religious Cultures of the South
REL 551/PHI 593 Ethics and the Health Professions
REL 552/PHI 594 Bioethics
REL 557 Modern Theology
REL 595 Religion, Art, and Aesthetics

Qualified undergraduates may take 500-level courses after consulting with the Department of Religion advisor and obtaining, before registration, the instructor's written approval.

Religion Minor

Chair: James Watts

501 Hall of Languages
315-443-5713

Knowledge of religion is critical in today's world. The academic study of religion at Syracuse University offers students the opportunity to explore religion in a cross-cultural and interdisciplinary context. Students who take courses in religion learn to interpret the dynamics of religious convictions, actions, and expressions.

Religious traditions and practices engage such questions as: What kind of life is most worth living? How do we understand the nature of the world? How do we relate to ourselves and to others?

Students study religious life and thought from the perspectives of arts, ethics, gender, history, literature, mythology, philosophy, political theory, psychology, scriptural studies, social sciences, and theology.

The academic study of religion is a critical undertaking and an often transforming experience introducing students to unfamiliar aspects of their own world, and to the religious realities of our global situation.

The Department of Religion has articulated three goals that shape its teaching and its expectations of what students in its courses and programs may expect to gain from this study:

1. to understand better the nature and diversity of religious expressions in the contemporary world and in history, and their power in peoples' personal and collective lives;
2. to think more deeply and critically about religious experience and its modes of expression and forms of interpretation;
3. to recognize and appreciate the difficulties and possibilities in a disciplined study of religion; and to become aware of a diversity of approaches and methods within that study.

Requirements

Students take 18 credits of appropriate and approved work in keeping with the following conditions:

1. at least 12 credits in courses numbered 300 or above;
2. all credits will be taken in courses offered by the Department of Religion.

Students interested in pursuing a minor in religion should contact the Director of Undergraduate Studies in 501 Hall of Languages, 315-443-3861.

Religion And Society Major

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315-443-5723
rgniebuh@syr.edu.

Faculty Philip P. Arnold, Carol Babiracki, Michael Barkun, Mehrzad Boroujerdi, Zachary J. Braiterman, John S. Burdick, Ann Grodzins Gold, M. Gail Hamner, Susan Henderson, Samantha Kahn Herrick, Tazim R. Kassam, Prema Kurien, Norman A. Kutcher, Patricia Cox Miller, Micere Githae Mugo, R. Gustav Niebuhr, Marcia C. Robinson, Dennis Romano, Maureen Trudelle Schwarz, John Scott Strickland, Laurence Thomas, Margaret Susan Thompson, Robert J. Thompson, Susan S. Wadley, Joanne P. Waghorne, Ernest E. Wallwork, James W. Watts

Religion and Society is an interdisciplinary program that provides the opportunity to study the pervasive role of religion in contemporary society, especially in U.S. national politics, international relations, economic development, and popular culture—and in most facets of social change broadly conceived. Course requirements aim to provide students with (1) an understanding of several major religious traditions on their own terms; (2) perspectives on the social and cultural roles played by religion in various periods and places, not the least of which is the contemporary world; and (3) comparative analyses of religion's influence on particular aspects of human cultures, such as politics, violence, and group identity. The program is open to any SU student, and may be especially useful to students interested in pursuing careers in journalism, international relations, law, government, or foreign service.

MAJOR REQUIREMENTS

The B.A. in religion and society is designed to encourage study of the interaction of religion with other aspects of public affairs, such as politics, diplomacy, law, and business, on the basis of a broad understanding of various religious traditions. It consists of a minimum of 30 credits (at least 18 credits in courses numbered 300 or above), of which 12 credits must be earned in courses from the Traditions list, 12 from the Religion and Society list, and 6 from either.

Traditions Courses (12-18 credits):

AAS 241/REL 281 African Religions
AAS/REL 345 African American Religious History
ANT 273/REL 244 Indigenous Religions
JSP/REL 135 Judaism
REL 101 Religions of the World
REL 142 Native American Religion
REL 156 Christianity
REL 165 The Islamic Tradition
REL 185 Hinduism
REL 186 Buddhism
REL 205 Ancient Greek Religion
REL 206 Greco-Roman Religion
REL 283 India's Religious Worlds
REL 301 Ancient Near Eastern Religions

Religion and Society Courses (12-18 credits):

AAS/HST 326 Africa Since 1800
AAS/HST 402 Slavery and Abolition
AAS/REL 543 Religious Cultures of the American South

ANT 373 Magic and Religion
 ANT 440 Topics in African Archaeology
 ANT/REL 471 Religion and Politics in Brazil
 ARC 435 Islamic Architecture
 HST 210 The Ancient World
 HST 212 Religion in Medieval and Reformation Europe
 HST 310,311 Medieval Europe
 HST 312 Reformation of the 16th Century
 HST 318 Islamic Civilization to 1500
 HST 319 Byzantine Empire
 HST 320 Traditional China
 HST 328 Ancient and Medieval India
 HST 354 Decline and Fall of the Roman Empire
 JSP/REL 334 Modern Judaism
 JSP/REL 337 Shoah: Responding to the Holocaust
 PHI/PSC 379 American Slavery and the Holocaust
 PSC/MES 345 Islam and Politics in Asia
 PSC 376 Revolution and Civil Violence
 PSC 377 Religion and Politics
 REL 121 Pilgrimage
 REL 241 Religious Diversity in America
 REL 246 Religion and Popular Culture
 REL 252 Religious Ethics and Social Issues
 REL 300 Religion and the News Media
 REL 324 Religion and Storytelling
 REL 326 Religion and Film
 REL 347 Religion and the Conquest of America
 REL 348 Religion and American Consumerism
 REL 352 Sociology of Religion and Morals
 REL 375 Religion and Ethics in Post-Freudian Depth Psychologies
 REL 395 Religions and the Natural Environment
 REL 449 Religious Dimensions of Whiteness
 WGS/REL 341/ HST 387 Women, Abolition and Religion in 19th-Century America
 WGS/REL 384 Goddesses, Women and Power in Hinduism
 WGS/REL 465 Gender in Islam

Religion And Society Minor

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 313 Tolley Humanities Building
 rgniebuh@syr.edu
 315-443-5723

Requirements

A minor in Religion and Society consists of a minimum of 18 credits (at least 12 credits in courses numbered 300 or above), of which 9 credits must be earned in courses from the Traditions list and 9 courses on the Religion and Society list.

Traditions Courses (9 credits):

AAS 241/REL 281	African Religions
AAS/REL 345	African American Religious History
ANT 273/REL 244	Indigenous Religions
JSP/REL 135	Judaism
REL 101	Religions of the World
REL 142	Native American Religion
REL 156	Christianity
REL 165	The Islamic Tradition
REL 185	Hinduism
REL 186	Buddhism
REL 205	Ancient Greek Religion
REL 206	Greco-Roman Religion
REL 283	India's Religious Worlds
REL 301	Ancient Near Eastern Religions

Religion and Society Courses (9 credits):

AAS/HST 326	Africa Since 1800
AAS/HST 402	Slavery and Abolition
AAS/REL 543	Religious Cultures of the American South
ANT 373	Magic and Religion
ANT 440	Topics in African Archaeology
ANT/REL 471	Religion and Politics in Brazil
HST 210	The Ancient World
HST 212	Religion in Medieval and Reformation Europe

HST 310,311	Medieval Europe
HST 312	Reformation of the 16th Century
HST 318	Islamic Civilization to 1500
HST 319	Byzantine Empire
HST 320	Traditional China
HST 328	Ancient and Medieval India
HST 354	Decline and Fall of the Roman Empire
JSP/REL 307	Second Temple Judaism
JSP/REL 334	Modern Judaism
JSP/REL 337	Shoah: Responding to the Holocaust
PHI/PSC 379	American Slavery and the Holocaust
PSC/MES 345	Islam and Politics in Asia
PSC 376	Revolution and Civil Violence
PSC 377	Religion and Politics
REL 121	Pilgrimage
REL 241	Religious Diversity in America
REL 246	Religion and Popular Culture
REL 252	Religious Ethics and Social Issues
REL 300	Religion and the News Media
REL 324	Religion and Storytelling
REL 326	Religion and Film
REL 347	Religion and the Conquest of America
REL 348	Religion and American Consumerism
REL 352	Sociology of Religion and Morals
REL 375	Religion and Ethics in Post-Freudian Depth Psychologies
REL 395	Religions and the Natural Environment
REL 449	Religious Dimensions of Whiteness
WGS/REL 341/HST 387/AAS 400	Women, Abolition and Religion in 19th-Century America
WGS/REL 384	Goddesses, Women and Power in Hinduism
WGS/REL 465	Gender in Islam

Religion And Media Minor

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Interdisciplinary in its offerings, the minor incorporates more than 25 courses within 10 departments and programs. The minor is open to any SU student, but it is designed specifically to guide students in journalism and related fields towards an essential understanding of religious traditions and major issues involving religion that they are likely to encounter in their careers.

The Religion and Media minor is built on the premise that religion is a vital part of life in the U.S. and many other nations. Debates about society and politics-about which the news media is expected to inform the public-often cannot be fully understood without reference to the religious ideas, organizations and movements.

Requirements

The minor requires 18 credits of course work, at least 12 of which must be taken in courses numbered at the 300-level or above. And two required courses REL 242: Religious Issues in American Life and REL 343: Religions and the News Media.

The minor's courses are divided into two clusters. They include the listed courses, but is not restricted to them, allowing for the inclusion of other courses developed later. The minor requires students to take a course only from within the World Religions cluster; the other cluster contains electives and is intended to encourage intellectual exploration of the study of religion.

World Religions

AAS/REL 281 African Religions
AAS/REL 345 African American Religious History
ANT 273/REL 244 Indigenous Religions
JSP/REL 135 Judaism
REL 114 The Bible
REL 142 Native American Religion
REL 156 Christianity
REL 165 Islam
REL 185 Hinduism
REL 186 Buddhism

Issues in Religion

HST 318 Islamic Civilization to 1500
HST 320 Traditional China
HST 325 Africa to 1800
HST 332 African American History through the 19th century
HST 328 Ancient and Medieval India
JSP 231 Judaic Literature
JSP/REL 334 Modern Judaic Thought
JSP 335 Israeli Literature and Culture

JSP/REL 392 History of the Holocaust
PSC/MES 345 Islam and Politics in Asia
PSC 377 Religion and Politics
PHI 325 Existentialism
REL 103 Religion and Sports
REL 107 Religion, Literature and Film
REL/SAS 283 India's Religious Worlds
REL/WSP/SAS 384 Goddesses, Women and Power in Hinduism
REL 396 Mysticism
WGS/REL/SAS 465 Gender in Islam

Rhetoric And Public Advocacy Minor

Rhetoric and Public Advocacy
Stephen Parks
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315-443-1912

The undergraduate minor in Rhetoric and Public Advocacy is an interdisciplinary program supported by the Writing Program (A&S), Communication and Rhetorical Studies (VPA), and the Program for the Advancement of Research on Conflict and Collaboration (MAX).

The 18-credit minor explores the connections between advocacy, as a pragmatic practice for social change, and rhetoric, as a historical tradition of public argument, within national and local contexts. Students understand advocacy as a practice that includes public argument and reasoning in multiple contexts as well as how each context demands its own set of unique actions. In this way, the minor offers intellectual and practical tools.

The minor is designed to be of interest to those wishing to learn about the emergence of key public issues, the larger political, social, and economic framework out which they emerge and how different constituencies respond. Students learn to assess competing interests within a public issue as well as how to plan local, regional, and national advocacy campaigns. By the completion of the minor, students come to understand advocacy as a necessary part of citizenship.

Requirements

The minor is open to all undergraduate Syracuse University students with a minimum GPA of 3.0.

Required Courses (6 credits):

Two of the following Choices: CRS 255: Public Advocacy, WRT 301: Civic Writing, or PAF 101: Intro to the Analysis of Public Policy.

Minor Tracks (9 credits):

Students must take at least one course in 3 of the categories.
Twelve credits must be in advanced 300- to 400- level coursework.

Rhetorical/Linguistic Frameworks for Advocacy

ANT 472: Language, Culture, and Society
ANT 372: Intercultural Communications and Conflict
ANT 475: Culture and Disputing
ANT 483: Social Movements
CRS 334: Argumentation
CRS 336: Communication and Organizational Diversity
CRS 355: Political Communication
LIN 571: Topics in Sociolinguistics
WRT 440: Issues in Language and Politics
LIN 471: Dimensions of Bilingualism and Multiculturalism

National Historical Frameworks for Advocacy

CRS 553: America Public Address
EST 361: History of the American Environmental Movement
HST 329: Making of Modern India
HST 334: Social and Cultural History of the United States
HST 345: Workers, Organized Labor in the United States
HST 387: Women, Abolition, and Religion in 19th Century
LIN 481: Global Communication through World Englishes
MAX 123: Critical Issues of the United States
MAX 132: Global Community
PSC 354: Human Rights/Global Affairs
PSC 306: African American Politics
PSC 328: American Social Movements
PSC 356: Political Conflict
WGS 438 Trans Genders and Sexualities
WGS 447: Sexualities and Gender in World Teen Culture

Local Frameworks for Advocacy

ANT 484: Social Movements and Resolution Skills
CMN 393: Environmental Discourse

Advocacy Practicum 3-credits

During a supervised practicum students engage in an extended project with an advocacy campaign/project currently underway, producing materials for the campaign as well as producing a rhetorical/historical/critical analysis of the campaign.

Russian Minor

Erika Haber
Languages, Literatures, and Linguistics
324 H.B. Crouse
315-443-4200

Faculty: G. Greenberg, E. Haber, P. Burak, Z. Stechmiller

MINOR IN RUSSIAN

To complete a minor in Russian, students take 18 credits in RUS courses, 6 of which may be in lower-division courses.

Russian And Central European Studies Minor

Gerry Greenberg
441 Hall of Languages
315-443-1414

Faculty: G. Greenberg, E. Haber, P. Burak, Z. Stechmiller

The Russian and Central European Studies minor is an interdisciplinary program that has been designed to acquaint students with the field of Russian and Central European studies through the study of art, culture, geography, history, language, literature, and political science.

Students are required to take 18 credits from the courses listed below. Up to 6 credits may be below the 300 level. Courses must be taken from at least two of the eight categories listed below. In addition, students must complete the 201 level in GER, POL, RUS, TRK (or other appropriate languages as instruction becomes available).

Languages, Literatures, and Linguistics

Any RUS, GER, POL, or TRK courses above the 201 level (Other appropriate courses with language prefixes as they become available, to be approved by the RCES advisor)

Anthropology

ANT 428 Transformation of Eastern Europe

Art and Music Histories

HOA 462 European Art Between the Wars

Geography

GEO 331 The European Union

History

HST 314 Europe from Bismarck to the First World War
HST 315 Europe in the Age of Hitler and Stalin
HST 316 Europe Since the Second World War
HST 361 Germany to World War I, 1770-1918
HST 362 Nazi Germany, 1933-1945
HST 364 Imperial Russia
HST 365 Soviet and Contemporary Russia

Literature in Translation

LIT 226 Dostoevsky and Tolstoy
LIT 227 Pasternak and Solzhenitsyn
LIT 331 Russian Culture Through Fiction and Film
RUS/LIT 332 Russian Fairy Tales and Folklore
RUS/LIT 361 Russian Literary Film Adaptations

(Other appropriate LIT courses to be approved by the RCES advisor as they become available)

Philosophy

PHI 418 Hegel, Marx, and Nietzsche

Political Science

PSC 332 Politics of Post Communist Europe
PSC 347 Politics of Russia
PSC 372 Marxist Theory

Russian And Central European Studies Major

Gerry Greenberg,
441 Hall of Languages
315-443-1414.

Faculty Pat Burak, Gerald R. Greenberg, Erika Haber, Paul M. Hagenloh, Laurie Marhoefer, Frederick D. Marquardt, Zofia Sztchmiler, Brian D. Taylor, Karina von Tipelskirch

The Russian and Central European Studies major is an interdisciplinary program that has been designed with some flexibility in order to serve students who wish to focus their liberal arts education on Russian and Central European studies, as well as those who look forward to a career as specialists in Russian or Central European affairs.

MAJOR REQUIREMENTS

Students are required to take at least 30 credits from the courses listed below. Up to 6 credits may be below the 300 level. In addition, students must complete 201 in GER, POL, RUS, or TRK (or other appropriate languages as instruction becomes available), or earn at least 3 credits at a higher level in a course taught in the language.

Languages, Literatures, and Linguistics

Any RUS, POL, TRK, or GER courses above the 201 level

Anthropology

ANT 428 Transformation of Eastern Europe

Art and Music Histories

HOA 462 European Art Between the Wars

Geography

GEO 331 The European Union History

History

HST 314 Europe from Bismarck to the First World War
HST 315 Europe in the Age of Hitler and Stalin
HST 316 Europe Since the Second World War
HST 361 Germany to World War I, 1770-1918
HST 362 Nazi Germany, 1933-1945
HST 364 The Origins of Modern Russia
HST 365 Russia in the 20th Century

Literature in Translation

LIT 226 Dostoevsky and Tolstoy
LIT 227 Pasternak and Solzhenitsyn
LIT 331 Russian Culture Through Fiction and Film

Philosophy

PHI 418 Hegel, Marx, and Nietzsche

Political Science

PSC 332 Politics of Post Communist Europe
PSC 347 Politics of Russia
PSC 372 Marxist Theory

Russian Language, Literature, And Culture Major

Erika Haber, Languages, Literatures, and Linguistics,
324 H.B. Crouse,
315-443-4200.

Faculty: G. Greenberg, E. Haber, P. Burak, Z. Stechmiler

The study of Russian language, literature, and culture provides more than just competence in reading, writing, and speaking the language. Students in this major, which leads to a B.A. degree, also learn about Russian literature, art, and journalism and, hence, about the people themselves. Through courses in other departments, students may also investigate the history, philosophy, and political science of Russia.

Students are admitted to the major through departmental approval and should consult the Russian language coordinator about their majors as early as possible. Early consultation is particularly important for students with little or no preparation in Russian so they may be sure to satisfy prerequisites and requirements within four years.

STUDY ABROAD

To become more fluent in Russian and to gain additional insight into the Russian culture and its people, students are encouraged to study abroad. For further information on programs administered through Syracuse University, contact the Russian Language Program Coordinator or Syracuse University Abroad.

MAJOR REQUIREMENTS

To major in Russian, students complete the following requirements for either Option I or Option II. Option I The program requires 25 credits in RUS courses, 4 of which may be in lower-division courses.

Option II The program requires 28 credits, 16 of which are in RUS courses. (Of the 16 RUS credits, 4 may be in lower-division courses; the rest are in upper-division courses.) The remaining 12 credits (6 of which are in upper-division courses) will be in relevant courses approved by the Russian faculty, taught in English in various departments.

Science Education-Biology

Arts And Sciences/Education (Dual)

Arts and Sciences contact: Ann Marie McGinnis, Director, Student Records Office, 329 Hall of Languages, mcginnis@syr.edu or 315-443-2205.

Education contacts: Pam Hachey (pkhachey@syr.edu) or Carol Radin (cvsradin@syr.edu), Assistant Directors of Academic Advising, Office of Academic and Student Services, 270 Huntington Hall, 315-443-9319

In order to graduate with eligibility to apply for New York State teacher certification in the secondary (7-12) academic areas of English, mathematics, science, or social studies, dual enrollment with the School of Education is required. Completion of all College of Arts and Sciences requirements (including the Liberal Arts Core with courses from specific categories and a major in one of the listed content areas) combined with 36 credits of education courses (including methods and student teaching) for a total of 123-126 credits are required. In addition, completion of New York State testing and other certification requirements apply. Please see the following detailed information.

The dual programs for prospective teachers provide a broad general education (the Liberal Arts Core of the College of Arts and Sciences), depth in the content area to be taught, and professional coursework and field experiences focusing on the skills and knowledge necessary to teach students from diverse backgrounds and with varying abilities. The programs available are listed below. A minimum of 123-126 credits are required. Some students may need to complete total program credits that are slightly greater than 126.

Students in the dual programs complete a program of study offered jointly by the College of Arts and Sciences and the School of Education: English education; mathematics education; science education (biology, chemistry, earth science, or physics); or social studies education. Students also complete the requirements for a College of Arts and Sciences major in the subject area.

Within the Liberal Arts Core, major, and/or electives, students must include one course from the following:

- mathematics (MAT 112 may not meet this requirement) (3 credits)
- history (3 credits)
- social science course other than history or psychology (3 credits)
- arts and culture/fine arts (3 credits)
- humanities course other than FIA or HST (3 credits)
- approved humanities or social science course with non-Western content (list is available from the education advisor) (3 credits)

When planning their subject areas, students should keep in mind that at least 9 credits of education are required in the spring of the junior year in order to meet the prerequisites for the fall student teaching experience. As many content (subject area) courses as possible should be completed by the end of the junior year. Other electives and remaining Liberal Arts Core courses can be delayed until the spring of the senior year.

All programs meet the academic requirements for New York State initial adolescent certification to teach grades 7-12 in the specified subject. Successful completion of certification examinations is also required for New York State teacher certification.

A core of professional requirements shared by all of these is as follows. Additional liberal arts, professional, and other requirements are described in the specific program sections below. More detailed information is available from the program coordinator.

PROFESSIONAL EDUCATION CORE (INCLUDING REQUIREMENTS OTHER THAN COURSES)

The professional sequence includes coursework, field experience and student teaching, and requirements other than coursework, described below.

The Professional Core Requires:

- EDU 204 Principles of Teaching and Learning in Inclusive Classrooms* (4 credits)
- EDU 304 Study of Teaching* (4 credits)
- EDU 310 American School* (3 credits)
- RED 326 Literacy Across the Curriculum* (4 credits)

Workshops:

Identifying/Reporting Child Abuse; Violence Prevention; Child Abduction Prevention; Highway Safety; Alcohol/Drug/Tobacco Prevention; Fire and Arson Prevention.

* EDU 304 and RED 326 should be taken after EDU 204, no later than the first semester of junior year. EDU 204 may be taken as early as the second semester of first year. EDU 310 may be taken before, during, or after professional semesters.

The semesters of registration listed are for students completing the program in four years. Others would adjust accordingly, with the candidacy and second professional semester as late in the program as possible.

Candidacy Semester

(spring of the junior year)

Prerequisites: Enrollment in the specific program; development of an acceptable professional portfolio (reviewed during the fall prior to the candidacy semester); a minimum 2.8 cumulative average, and 2.8 (3.0 for English education) in both required education and in content (subject matter) courses; completion of EDU 204 and 304, RED 326, and the number of content courses required by the program; and appropriate progress toward meeting all of the program assessment proficiencies and dispositions.

Note: SU Abroad study planned for the junior year would need to take place in the fall semester.

SED 413 or SCE 413 Methods and Curriculum in Teaching (in specific subject area)	(3 credits)
SED 409 Adapting Instruction for Diverse Student Needs	(3 credits)
EDU 508 Student Teaching/Secondary Candidacy (including during SU's spring break)	(3 credits)

Standard Student Teaching Semester

(fall of the senior year)

Prerequisites: Successful completion of the candidacy semester and an acceptable professional portfolio; completion of the required amount of credits in the content area; grade point averages at or above the minimums stated above; successful review of all appropriate student assessment proficiencies and dispositions.

EDU 508 Student Teaching (9 credits)
SED 415 Teacher Development (3 credits)

Because this student teaching placement is a full-time, 10-week experience, no other daytime courses can be taken, and it is not advisable to plan more than 12 total credits in this semester, unless approved by an advisor.

Admissions

A minimum of a 2.8 grade point average is required for admission to these Arts and Sciences and Education dual enrollment programs. GPA requirements for admission to the candidacy and standard student teaching semesters, and other prerequisites to these semesters are mentioned above. Additional requirements may apply to some programs.

Intra-University transfer to the School of Education is coordinated through the Office of Academic and Student Services, 270 Huntington Hall. Upon acceptance into a dual program, the student should also complete the official program of study form required by the College of Arts and Sciences. Students may not declare a major in an Arts and Sciences/Education program until they are accepted by the School of Education. Application should be made as soon as possible, but must be made no later than the start of the fall of the junior year by those hoping to complete the program in four years (although even then extra semesters may be necessary).

Advising And Special Services

A dually enrolled student has an advisor in each college or one advisor dually appointed to both colleges. Early contact with the education advisor is important for progress and careful planning. Contact is also required before each registration in order to have the School of Education advising hold lifted.

Students planning graduation from these programs are expected to ensure a senior check has been completed with the School of Education, in addition to similar monitoring by the College of Arts and Sciences. They also may take advantage of the job search services of the Education Career Services Office, 270 Huntington Hall.

Science Education-Biology

Contact: John W. Tillotson, 101 Heroy Building, 315-443-2586, jwtillot@syr.edu

In addition to the professional education requirements, students in science education complete the Bachelor of Arts* with a major in the primary science area and the following requirements:

Core Requirements

Science education majors must complete the Liberal Arts Core curriculum with these additional specific requirements:

- One approved history (HST) course (3 credits)
- One social science course (other than history (HST) or psychology (PSY)) (3 credits)
- One fine arts within Arts and Sciences (FIA) course (3 credits)
- One humanities course (other than history (HST) or fine arts (FIA)) (3 credits)
- One multicultural humanities or social science course (3 credits)
- One approved calculus course (3 credits)

Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study.

Science Content

Science majors are required to complete a major of no less than 30 credits in an area chosen from biology, chemistry, geology (earth science), or physics.

In addition to, or as part of, the major, students must complete an introductory laboratory sequence in a second science area.

*The B.S. degree may be earned in the primary science area instead of the B.A. with the completion of additional science requirements, paperwork, and an appropriate petition.

** See specific departmental major course requirements for biology.

Science Education-Chemistry

Arts And Sciences/Education (Dual)

Arts and Sciences contact: Ann Marie McGinnis, Director, Student Records Office, 329 Hall of Languages, mcginnis@syr.edu 315-443-2205.

Education contacts: Pam Hachey (pkhachey@syr.edu) or Carol Radin (cvsradin@syr.edu), Assistant Directors of Academic Advising, Office of Academic and Student Services, 270 Huntington Hall, 315-443-9319

In order to graduate with eligibility to apply for New York State teacher certification in the secondary (7-12) academic areas of English, mathematics, science, or social studies, dual enrollment with the School of Education is required. Completion of all College of Arts and Sciences requirements (including the Liberal Arts Core with courses from specific categories and a major in one of the listed content areas) combined with 36 credits of education courses (including methods and student teaching) for a total of 123-126 credits are required. In addition, completion of New York State testing and other certification requirements apply. Please see the following detailed information.

The dual programs for prospective teachers provide a broad general education (the Liberal Arts Core of the College of Arts and Sciences), depth in the content area to be taught, and professional coursework and field experiences focusing on the skills and knowledge necessary to teach students from diverse backgrounds and with varying abilities. The programs available are listed below. A minimum of 123-126 credits are required. Some students may need to complete total program credits that are slightly greater than 126.

Students in the dual programs complete a program of study offered jointly by the College of Arts and Sciences and the School of Education: English education; mathematics education; science education (biology, chemistry, earth science, or physics); or social studies education. Students also complete the requirements for a College of Arts and Sciences major in the subject area.

Within the Liberal Arts Core, major, and/or electives, students must include one course from the following:

- mathematics (MAT 112 may not meet this requirement) (3 credits)
- history (3 credits)
- social science course other than history or psychology (3 credits)
- arts and culture/fine arts (3 credits)
- humanities course other than FIA or HST (3 credits)
- approved humanities or social science course with non-Western content (list is available from the education advisor) (3 credits)

When planning their subject areas, students should keep in mind that at least 9 credits of education are required in the spring of the junior year in order to meet the prerequisites for the fall student teaching experience. As many content (subject area) courses as possible should be completed by the end of the junior year. Other electives and remaining Liberal Arts Core courses can be delayed until the spring of the senior year.

All programs meet the academic requirements for New York State initial adolescent certification to teach grades 7-12 in the specified subject. Successful completion of certification examinations is also required for New York State teacher certification.

A core of professional requirements shared by all of these is as follows. Additional liberal arts, professional, and other requirements are described in the specific program sections below. More detailed information is available from the program coordinator.

PROFESSIONAL EDUCATION CORE (INCLUDING REQUIREMENTS OTHER THAN COURSES)

The professional sequence includes coursework, field experience and student teaching, and requirements other than coursework, described below.

The Professional Core Requires:

- EDU 204 Principles of Teaching and Learning in Inclusive Classrooms* (4 credits)
- EDU 304 Study of Teaching* (4 credits)
- EDU 310 American School* (3 credits)
- RED 326 Literacy Across the Curriculum* (4 credits)

Workshops:

Identifying/Reporting Child Abuse; Violence Prevention; Child Abduction Prevention; Highway Safety; Alcohol/Drug/Tobacco Prevention; Fire and Arson Prevention.

* EDU 304 and RED 326 should be taken after EDU 204, no later than the first semester of junior year. EDU 204 may be taken as early as the second semester of first year. EDU 310 may be taken before, during, or after professional semesters.

The semesters of registration listed are for students completing the program in four years. Others would adjust accordingly, with the candidacy and second professional semester as late in the program as possible.

Candidacy Semester

(spring of the junior year)

Prerequisites: Enrollment in the specific program; development of an acceptable professional portfolio (reviewed during the fall prior to the candidacy semester); a minimum 2.8 cumulative average, and 2.8 (3.0 for English education) in both required education and in content (subject matter) courses; completion of EDU 204 and 304, RED 326, and the number of content courses required by the program; and appropriate progress toward meeting all of the program assessment proficiencies and dispositions.

Note: SU Abroad study planned for the junior year would need to take place in the fall semester.

SED 413 or SCE 413 Methods and Curriculum in Teaching (in specific subject area) (3 credits)
SED 409 Adapting Instruction for Diverse Student Needs (3 credits)
EDU 508 Student Teaching/Secondary Candidacy (including during SU's spring break) (3 credits)

Standard Student Teaching Semester

(fall of the senior year)

Prerequisites: Successful completion of the candidacy semester and an acceptable professional portfolio; completion of the required amount of credits in the content area; grade point averages at or above the minimums stated above; successful review of all appropriate student assessment proficiencies and dispositions.

EDU 508 Student Teaching (9 credits)
SED 415 Teacher Development (3 credits)

Because this student teaching placement is a full-time, 10-week experience, no other daytime courses can be taken, and it is not advisable to plan more than 12 total credits in this semester, unless approved by an advisor.

Admissions

A minimum of a 2.8 grade point average is required for admission to these Arts and Sciences and Education dual enrollment programs. GPA requirements for admission to the candidacy and standard student teaching semesters, and other prerequisites to these semesters are mentioned above. Additional requirements may apply to some programs.

Intra-University transfer to the School of Education is coordinated through the Office of Academic and Student Services, 270 Huntington Hall. Upon acceptance into a dual program, the student should also complete the official program of study form required by the College of Arts and Sciences. Students may not declare a major in an Arts and Sciences/Education program until they are accepted by the School of Education. Application should be made as soon as possible, but must be made no later than the start of the fall of the junior year by those hoping to complete the program in four years (although even then extra semesters may be necessary).

Advising And Special Services

A dually enrolled student has an advisor in each college or one advisor dually appointed to both colleges. Early contact with the education advisor is important for progress and careful planning. Contact is also required before each registration in order to have the School of Education advising hold lifted.

Students planning graduation from these programs are expected to ensure a senior check has been completed with the School of Education, in addition to similar monitoring by the College of Arts and Sciences. They also may take advantage of the job search services of the Education Career Services Office, 270 Huntington Hall.

Science Education-Chemistry

Contact: John W. Tillotson, 101 Heroy Building, 315-443-2586, jwtillo@syr.edu

In addition to the professional education requirements, students in science education complete the Bachelor of Arts.* with a major in the primary science area and the following requirements:

Core Requirements

Science education majors must complete the Liberal Arts Core curriculum with these additional specific requirements:

One approved history (HST) course (3 credits)
One social science course (other than history (HST) or psychology (PSY)) (3 credits)
One fine arts within Arts and Sciences (FIA) course (3 credits)
One humanities course (other than history (HST) or fine arts (FIA)) (3 credits)
One multicultural humanities or social science course (3 credits)
One approved calculus course (3 credits)

Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study.

Science Content

Science majors are required to complete a major of no less than 30 credits in an area chosen from biology, chemistry, geology (earth science), or physics.

In addition to, or as part of, the major, students must complete an introductory laboratory sequence in a second science area.

*The B.S. degree may be earned in the primary science area instead of the B.A. with the completion of additional science requirements, paperwork, and an appropriate petition.

** See specific departmental major course requirements for chemistry.

Science Education-Earth Science

Arts And Sciences/Education (Dual)

Arts and Sciences contact: Ann Marie McGinnis, Director, Student Records Office, 329 Hall of Languages, mcginnis@syr.edu or 315-443-2205.

Education contacts: Pam Hachey (pkhachey@syr.edu) or Carol Radin (cvsradin@syr.edu), Assistant Directors of Academic Advising, Office of Academic and Student Services, 270 Huntington Hall, 315-443-9319

In order to graduate with eligibility to apply for New York State teacher certification in the secondary (7-12) academic areas of English, mathematics, science, or social studies, dual enrollment with the School of Education is required. Completion of all College of Arts and Sciences requirements (including the Liberal Arts Core with courses from specific categories and a major in one of the listed content areas) combined with 36 credits of education courses (including methods and student teaching) for a total of 123-126 credits are required. In addition, completion of New York State testing and other certification requirements apply. Please see the following detailed information.

The dual programs for prospective teachers provide a broad general education (the Liberal Arts Core of the College of Arts and Sciences), depth in the content area to be taught, and professional coursework and field experiences focusing on the skills and knowledge necessary to teach students from diverse backgrounds and with varying abilities. The programs available are listed below. A minimum of 123-126 credits are required. Some students may need to complete total program credits that are slightly greater than 126.

Students in the dual programs complete a program of study offered jointly by the College of Arts and Sciences and the School of Education: English education; mathematics education; science education (biology, chemistry, earth science, or physics); or social studies education. Students also complete the requirements for a College of Arts and Sciences major in the subject area.

Within the Liberal Arts Core, major, and/or electives, students must include one course from the following:

- mathematics (MAT 112 may not meet this requirement) (3 credits)
- history (3 credits)
- social science course other than history or psychology (3 credits)
- arts and culture/fine arts (3 credits)
- humanities course other than FIA or HST (3 credits)
- approved humanities or social science course with non-Western content (list is available from the education advisor) (3 credits)

When planning their subject areas, students should keep in mind that at least 9 credits of education are required in the spring of the junior year in order to meet the prerequisites for the fall student teaching experience. As many content (subject area) courses as possible should be completed by the end of the junior year. Other electives and remaining Liberal Arts Core courses can be delayed until the spring of the senior year.

All programs meet the academic requirements for New York State initial adolescent certification to teach grades 7-12 in the specified subject. Successful completion of certification examinations is also required for New York State teacher certification.

A core of professional requirements shared by all of these is as follows. Additional liberal arts, professional, and other requirements are described in the specific program sections below. More detailed information is available from the program coordinator.

PROFESSIONAL EDUCATION CORE (INCLUDING REQUIREMENTS OTHER THAN COURSES)

The professional sequence includes coursework, field experience and student teaching, and requirements other than coursework, described below.

The Professional Core Requires:

- EDU 204 Principles of Teaching and Learning in Inclusive Classrooms* (4 credits)
- EDU 304 Study of Teaching* (4 credits)
- EDU 310 American School* (3 credits)
- RED 326 Literacy Across the Curriculum* (4 credits)

Workshops:

Identifying/Reporting Child Abuse; Violence Prevention; Child Abduction Prevention; Highway Safety; Alcohol/Drug/Tobacco Prevention; Fire and Arson Prevention.

* EDU 304 and RED 326 should be taken after EDU 204, no later than the first semester of junior year. EDU 204 may be taken as early as the second semester of first year. EDU 310 may be taken before, during, or after professional semesters.

The semesters of registration listed are for students completing the program in four years. Others would adjust accordingly, with the candidacy and second professional semester as late in the program as possible.

Candidacy Semester

(spring of the junior year)

Prerequisites: Enrollment in the specific program; development of an acceptable professional portfolio (reviewed during the fall prior to the candidacy semester); a minimum 2.8 cumulative average, and 2.8 (3.0 for English education) in both required education and in content (subject matter) courses; completion of EDU 204 and 304, RED 326, and the number of content courses required by the program; and appropriate progress toward meeting all of the program assessment proficiencies and dispositions.

Note: SU Abroad study planned for the junior year would need to take place in the fall semester.

SED 413 or SCE 413 Methods and Curriculum in Teaching (in specific subject area) (3 credits)
SED 409 Adapting Instruction for Diverse Student Needs (3 credits)
EDU 508 Student Teaching/Secondary Candidacy (including during SU's spring break) (3 credits)

Standard Student Teaching Semester

(fall of the senior year)

Prerequisites: Successful completion of the candidacy semester and an acceptable professional portfolio; completion of the required amount of credits in the content area; grade point averages at or above the minimums stated above; successful review of all appropriate student assessment proficiencies and dispositions.

EDU 508 Student Teaching (9 credits)
SED 415 Teacher Development (3 credits)

Because this student teaching placement is a full-time, 10-week experience, no other daytime courses can be taken, and it is not advisable to plan more than 12 total credits in this semester, unless approved by an advisor.

Admissions

A minimum of a 2.8 grade point average is required for admission to these Arts and Sciences and Education dual enrollment programs. GPA requirements for admission to the candidacy and standard student teaching semesters, and other prerequisites to these semesters are mentioned above. Additional requirements may apply to some programs.

Intra-University transfer to the School of Education is coordinated through the Office of Academic and Student Services, 270 Huntington Hall. Upon acceptance into a dual program, the student should also complete the official program of study form required by the College of Arts and Sciences. Students may not declare a major in an Arts and Sciences/Education program until they are accepted by the School of Education. Application should be made as soon as possible, but must be made no later than the start of the fall of the junior year by those hoping to complete the program in four years (although even then extra semesters may be necessary).

Advising And Special Services

A dually enrolled student has an advisor in each college or one advisor dually appointed to both colleges. Early contact with the education advisor is important for progress and careful planning. Contact is also required before each registration in order to have the School of Education advising hold lifted.

Students planning graduation from these programs are expected to ensure a senior check has been completed with the School of Education, in addition to similar monitoring by the College of Arts and Sciences. They also may take advantage of the job search services of the Education Career Services Office, 270 Huntington Hall.

Science Education-Earth Science

Contact: John W. Tillotson, 101 Heroy Building, 315-443-2586, jwtilot@syr.edu

In addition to the professional education requirements, students in science education complete the Bachelor of Arts* with a major in the primary science area and the following requirements:

Core Requirements

Science education majors must complete the Liberal Arts Core curriculum with these additional specific requirements:

One approved history (HST) course (3 credits)
One social science course (other than history (HST) or psychology (PSY)) (3 credits)
One fine arts within Arts and Sciences (FIA) course (3 credits)
One humanities course (other than history (HST) or fine arts (FIA)) (3 credits)
One multicultural humanities or social science course (3 credits)
One approved calculus course (3 credits)

Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study.

Science Content

Science majors are required to complete a major of no less than 30 credits in an area chosen from biology, chemistry, geology (earth science), or physics.

In addition to, or as part of, the major, students must complete an introductory laboratory sequence in a second science area.

*The B.S. degree may be earned in the primary science area instead of the B.A. with the completion of additional science requirements, paperwork, and an appropriate petition.

** See specific departmental major course requirements for earth science.

Science Education-Physics

Arts And Sciences/Education (Dual)

Arts and Sciences contact: Ann Marie McGinnis, Director, Student Records Office, 329 Hall of Languages, mcginnis@syr.edu or 315-443-2205.

Education contacts: Pam Hachey (pkhachey@syr.edu) or Carol Radin (cvsradin@syr.edu), Assistant Directors of Academic Advising, Office of Academic and Student Services, 270 Huntington Hall, 315-443-9319

In order to graduate with eligibility to apply for New York State teacher certification in the secondary (7-12) academic areas of English, mathematics, science, or social studies, dual enrollment with the School of Education is required. Completion of all College of Arts and Sciences requirements (including the Liberal Arts Core with courses from specific categories and a major in one of the listed content areas) combined with 36 credits of education courses (including methods and student teaching) for a total of 123-126 credits are required. In addition, completion of New York State testing and other certification requirements apply. Please see the following detailed information.

The dual programs for prospective teachers provide a broad general education (the Liberal Arts Core of the College of Arts and Sciences), depth in the content area to be taught, and professional coursework and field experiences focusing on the skills and knowledge necessary to teach students from diverse backgrounds and with varying abilities. The programs available are listed below. A minimum of 123-126 credits are required. Some students may need to complete total program credits that are slightly greater than 126.

Students in the dual programs complete a program of study offered jointly by the College of Arts and Sciences and the School of Education: English education; mathematics education; science education (biology, chemistry, earth science, or physics); or social studies education. Students also complete the requirements for a College of Arts and Sciences major in the subject area.

Within the Liberal Arts Core, major, and/or electives, students must include one course from the following:

- mathematics (MAT 112 may not meet this requirement) (3 credits)
- history (3 credits)
- social science course other than history or psychology (3 credits)
- arts and culture/fine arts (3 credits)
- humanities course other than FIA or HST (3 credits)
- approved humanities or social science course with non-Western content (list is available from the education advisor) (3 credits)

When planning their subject areas, students should keep in mind that at least 9 credits of education are required in the spring of the junior year in order to meet the prerequisites for the fall student teaching experience. As many content (subject area) courses as possible should be completed by the end of the junior year. Other electives and remaining Liberal Arts Core courses can be delayed until the spring of the senior year.

All programs meet the academic requirements for New York State initial adolescent certification to teach grades 7-12 in the specified subject. Successful completion of certification examinations is also required for New York State teacher certification.

A core of professional requirements shared by all of these is as follows. Additional liberal arts, professional, and other requirements are described in the specific program sections below. More detailed information is available from the program coordinator.

PROFESSIONAL EDUCATION CORE (INCLUDING REQUIREMENTS OTHER THAN COURSES)

The professional sequence includes coursework, field experience and student teaching, and requirements other than coursework, described below.

The Professional Core Requires:

- EDU 204 Principles of Teaching and Learning in Inclusive Classrooms* (4 credits)
- EDU 304 Study of Teaching* (4 credits)
- EDU 310 American School* (3 credits)
- RED 326 Literacy Across the Curriculum* (4 credits)

Workshops:

Identifying/Reporting Child Abuse; Violence Prevention; Child Abduction Prevention; Highway Safety; Alcohol/Drug/Tobacco Prevention; Fire and Arson Prevention.

* EDU 304 and RED 326 should be taken after EDU 204, no later than the first semester of junior year. EDU 204 may be taken as early as the second semester of first year. EDU 310 may be taken before, during, or after professional semesters.

The semesters of registration listed are for students completing the program in four years. Others would adjust accordingly, with the candidacy and second professional semester as late in the program as possible.

Candidacy Semester

(spring of the junior year)

Prerequisites: Enrollment in the specific program; development of an acceptable professional portfolio (reviewed during the fall prior to the candidacy semester); a minimum 2.8 cumulative average, and 2.8 (3.0 for English education) in both required education and in content (subject matter) courses; completion of EDU 204 and 304, RED 326, and the number of content courses required by the program; and appropriate progress toward meeting all of

the program assessment proficiencies and dispositions.

Note: SU Abroad study planned for the junior year would need to take place in the fall semester.

SED 413 or SCE 413 Methods and Curriculum in Teaching (in specific subject area) (3 credits)
SED 409 Adapting Instruction for Diverse Student Needs (3 credits)
EDU 508 Student Teaching/Secondary Candidacy (including during SU's spring break) (3 credits)

Standard Student Teaching Semester

(fall of the senior year)

Prerequisites: Successful completion of the candidacy semester and acceptable professional portfolio; completion of the required amount of credits in the content area; grade point averages at or above the minimums stated above; successful review of all appropriate student assessment proficiencies and dispositions.

EDU 508 Student Teaching (9 credits)
SED 415 Teacher Development (3 credits)

Because this student teaching placement is a full-time, 10-week experience, no other daytime courses can be taken, and it is not advisable to plan more than 12 total credits in this semester, unless approved by an advisor.

Admissions

A minimum of a 2.8 grade point average is required for admission to these Arts and Sciences and Education dual enrollment programs. GPA requirements for admission to the candidacy and standard student teaching semesters, and other prerequisites to these semesters are mentioned above. Additional requirements may apply to some programs.

Intra-University transfer to the School of Education is coordinated through the Office of Academic and Student Services, 270 Huntington Hall. Upon acceptance into a dual program, the student should also complete the official program of study form required by the College of Arts and Sciences. Students may not declare a major in an Arts and Sciences/Education program until they are accepted by the School of Education. Application should be made as soon as possible, but must be made no later than the start of the fall of the junior year by those hoping to complete the program in four years (although even then extra semesters may be necessary).

Advising And Special Services

A dually enrolled student has an advisor in each college or one advisor dually appointed to both colleges. Early contact with the education advisor is important for progress and careful planning. Contact is also required before each registration in order to have the School of Education advising hold lifted.

Students planning graduation from these programs are expected to ensure a senior check has been completed with the School of Education, in addition to similar monitoring by the College of Arts and Sciences. They also may take advantage of the job search services of the Education Career Services Office, 270 Huntington Hall.

Science Education-Physics

Contact: John W. Tillotson, 101 Heroy Building, 315-443-2586, jwtilot@syr.edu

In addition to the professional education requirements, students in science education complete the Bachelor of Arts* with a major in the primary science area and the following requirements:

Core Requirements

Science education majors must complete the Liberal Arts Core curriculum with these additional specific requirements:

One approved history (HST) course (3 credits)
One social science course (other than history (HST) or psychology (PSY)) (3 credits)
One fine arts within Arts and Sciences (FIA) course (3 credits)
One humanities course (other than history (HST) or fine arts (FIA) (3 credits)
One multicultural humanities or social science course (3 credits)
One approved calculus course (3 credits)

Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study.

Science Content

Science majors are required to complete a major of no less than 30 credits in an area chosen from biology, chemistry, geology (earth science), or physics.

In addition to, or as part of, the major, students must complete an introductory laboratory sequence in a second science area.

*The B.S. degree may be earned in the primary science area instead of the B.A. with the completion of additional science requirements, paperwork, and an appropriate petition.

** See specific departmental major course requirements for physics.

Selected Studies Major

Shruti Viswanathan, Associate Director,
Academic Support
329 Hall of Languages,
315-443-2207.

The selected studies program offers the student an opportunity to develop a highly individualized curricular plan. This program, which can lead to the B.A. or the B.S. degree, is intended to meet individual needs. It provides considerable freedom in curricular planning, but also requires greatly increased responsibility on the part of the student.

Each student in the selected studies program develops a four-year program of study based on academic goals. He or she is assisted by a faculty advisor who helps to formulate an academically sound curriculum.

GUIDELINES

Each selected studies program provides for a total of at least 120 credits. Among the courses taken outside of the College of Arts and Sciences, no more than 24 credits may be taken in any one school or college of the University.

Proposals should avoid overspecialization. Proposals that seem to aim at narrow vocational training are likely to be rejected. Students whose applications indicate that they can best be served by a traditional major are likely to be referred to the appropriate department.

The B.A. in Selected Studies includes at least 90 credits of arts and sciences courses and a minimum of 60 credits in courses numbered at the 300-level or higher (upper division).

The bachelor of science Selected Studies program contains at least 75 credits of arts and sciences courses and a minimum of 50 credits in courses numbered at the 300-level or higher (upper division). It includes a minimum of 36 credits of courses in departments offering the B.S. degree at Syracuse University and exhibit a specialization of no more than 60 credits justifying the title of the program.

ELIGIBILITY

Any student in good academic standing (i.e., a minimum cumulative GPA of 2.0) in the College of Arts and Sciences may apply for admission to selected studies, subject to the following considerations:

1. Students are permitted to participate in the Selected Studies program only after they have completed two semesters at Syracuse, but program proposals may be submitted for review at any time before the end of the junior year.
2. To assure timely approval, the student should submit the proposal to the director of academic advising and counseling services at least 60 days before the registration period for the program's first semester.
3. A student cannot be admitted to the Selected Studies program later than the second semester of the junior year.

APPLICATION

Students who wish to participate in the Selected Studies program should consult the Academic Advising and Counseling Services Office, 329 Hall of Languages, for a complete statement of procedures and requirements.

Selected Studies In Arts And Sciences

Shruti Viswanathan, Associate Director,
Academic Support
329 Hall of Languages,
315-443-2207.

The selected studies program offers the student an opportunity to develop a highly individualized curricular plan. This program, which can lead to the B.A. or the B.S. degree, is intended to meet individual needs. It provides considerable freedom in curricular planning, but also requires greatly increased responsibility on the part of the student.

Each student in the selected studies program develops a four-year program of study based on academic goals. He or she is assisted by a faculty advisor who helps to formulate an academically sound curriculum.

GUIDELINES

Each selected studies program provides for a total of at least 120 credits. Among the courses taken outside of the College of Arts and Sciences, no more than 24 credits may be taken in any one school or college of the University.

Proposals should avoid overspecialization. Proposals that seem to aim at narrow vocational training are likely to be rejected. Students whose applications indicate that they can best be served by a traditional major are likely to be referred to the appropriate department.

The B.A. in Selected Studies includes at least 90 credits of arts and sciences courses and a minimum of 60 credits in courses numbered at the 300-level or higher (upper division).

The bachelor of science Selected Studies program contains at least 75 credits of arts and sciences courses and a minimum of 50 credits in courses numbered at the 300-level or higher (upper division). It includes a minimum of 36 credits of courses in departments offering the B.S. degree at Syracuse University and exhibit a specialization of no more than 60 credits justifying the title of the program.

ELIGIBILITY

Any student in good academic standing (i.e., a minimum cumulative GPA of 2.0) in the College of Arts and Sciences may apply for admission to selected

studies, subject to the following considerations:

1. Students are permitted to participate in the Selected Studies program only after they have completed two semesters at Syracuse, but program proposals may be submitted for review at any time before the end of the junior year.
2. To assure timely approval, the student should submit the proposal to the director of academic advising and counseling services at least 60 days before the registration period for the program's first semester.
3. A student cannot be admitted to the Selected Studies program later than the second semester of the junior year.

APPLICATION

Students who wish to participate in the Selected Studies program should consult the Academic Advising and Counseling Services Office, 329 Hall of Languages, for a complete statement of procedures and requirements.

Social Studies Education

Arts And Sciences/Education (Dual)

Arts and Sciences contact: Ann Marie McGinnis, Director, Student Records Office, 329 Hall of Languages, mcginnis@syr.edu or 315-443-2205.

Education contacts: Pam Hachey (pkhachey@syr.edu) or Carol Radin (cvradin@syr.edu), Assistant Directors of Academic Advising, Office of Academic and Student Services, 270 Huntington Hall, 315-443-9319

In order to graduate with eligibility to apply for New York State teacher certification in the secondary (7-12) academic areas of English, mathematics, science, or social studies, dual enrollment with the School of Education is required. Completion of all College of Arts and Sciences requirements (including the Liberal Arts Core with courses from specific categories and a major in one of the listed content areas) combined with 36 credits of education courses (including methods and student teaching) for a total of 123-126 credits are required. In addition, completion of New York State testing and other certification requirements apply. Please see the following detailed information.

The dual programs for prospective teachers provide a broad general education (the Liberal Arts Core of the College of Arts and Sciences), depth in the content area to be taught, and professional coursework and field experiences focusing on the skills and knowledge necessary to teach students from diverse backgrounds and with varying abilities. The programs available are listed below. A minimum of 123-126 credits are required. Some students may need to complete total program credits that are slightly greater than 126.

Students in the dual programs complete a program of study offered jointly by the College of Arts and Sciences and the School of Education: English education; mathematics education; science education (biology, chemistry, earth science, or physics); or social studies education. Students also complete the requirements for a College of Arts and Sciences major in the subject area.

Within the Liberal Arts Core, major, and/or electives, students must include one course from the following:

- mathematics (MAT 112 may not meet this requirement) (3 credits)
- history (3 credits)
- social science course other than history or psychology (3 credits)
- arts and culture/fine arts (3 credits)
- humanities course other than FIA or HST (3 credits)
- approved humanities or social science course with non-Western content (list is available from the education advisor) (3 credits)

When planning their subject areas, students should keep in mind that at least 9 credits of education are required in the spring of the junior year in order to meet the prerequisites for the fall student teaching experience. As many content (subject area) courses as possible should be completed by the end of the junior year. Other electives and remaining Liberal Arts Core courses can be delayed until the spring of the senior year.

All programs meet the academic requirements for New York State initial adolescent certification to teach grades 7-12 in the specified subject. Successful completion of certification examinations is also required for New York State teacher certification.

A core of professional requirements shared by all of these is as follows. Additional liberal arts, professional, and other requirements are described in the specific program sections below. More detailed information is available from the program coordinator.

PROFESSIONAL EDUCATION CORE (INCLUDING REQUIREMENTS OTHER THAN COURSES)

The professional sequence includes coursework, field experience and student teaching, and requirements other than coursework, described below.

The Professional Core Requires:

- EDU 204 Principles of Teaching and Learning in Inclusive Classrooms* (4 credits)
- EDU 304 Study of Teaching* (4 credits)
- EDU 310 American School* (3 credits)
- RED 326 Literacy Across the Curriculum* (4 credits)

Workshops:

Identifying/Reporting Child Abuse; Violence Prevention; Child Abduction Prevention; Highway Safety; Alcohol/Drug/Tobacco Prevention; Fire and Arson Prevention.

* EDU 304 and RED 326 should be taken after EDU 204, no later than the first semester of junior year. EDU 204 may be taken as early as the second

semester of first year. EDU 310 may be taken before, during, or after professional semesters.

The semesters of registration listed are for students completing the program in four years. Others would adjust accordingly, with the candidacy and second professional semester as late in the program as possible.

Candidacy Semester

(spring of the junior year)

Prerequisites: Enrollment in the specific program; development of an acceptable professional portfolio (reviewed during the fall prior to the candidacy semester); a minimum 2.8 cumulative average, and 2.8 (3.0 for English education) in both required education and in content (subject matter) courses; completion of EDU 204 and 304, RED 326, and the number of content courses required by the program; and appropriate progress toward meeting all of the program assessment proficiencies and dispositions.

Note: SU Abroad study planned for the junior year would need to take place in the fall semester.

SED 413 or SCE 413 Methods and Curriculum in Teaching (in specific subject area)	(3 credits)
SED 409 Adapting Instruction for Diverse Student Needs	(3 credits)
EDU 508 Student Teaching/Secondary Candidacy (including during SU's spring break)	(3 credits)

Standard Student Teaching Semester

(fall of the senior year)

Prerequisites: Successful completion of the candidacy semester and an acceptable professional portfolio; completion of the required amount of credits in the content area; grade point averages at or above the minimums stated above; successful review of all appropriate student assessment proficiencies and dispositions.

EDU 508 Student Teaching	(9 credits)
SED 415 Teacher Development	(3 credits)

Because this student teaching placement is a full-time, 10-week experience, no other daytime courses can be taken, and it is not advisable to plan more than 12 total credits in this semester, unless approved by an advisor.

Admissions

A minimum of a 2.8 grade point average is required for admission to these Arts and Sciences and Education dual enrollment programs. GPA requirements for admission to the candidacy and standard student teaching semesters, and other prerequisites to these semesters are mentioned above. Additional requirements may apply to some programs.

Intra-University transfer to the School of Education is coordinated through the Office of Academic and Student Services, 270 Huntington Hall. Upon acceptance into a dual program, the student should also complete the official program of study form required by the College of Arts and Sciences. Students may not declare a major in an Arts and Sciences/Education program until they are accepted by the School of Education. Application should be made as soon as possible, but must be made no later than the start of the fall of the junior year by those hoping to complete the program in four years (although even then extra semesters may be necessary).

Advising And Special Services

A dually enrolled student has an advisor in each college or one advisor dually appointed to both colleges. Early contact with the education advisor is important for progress and careful planning. Contact is also required before each registration in order to have the School of Education advising hold lifted.

Students planning graduation from these programs are expected to ensure a senior check has been completed with the School of Education, in addition to similar monitoring by the College of Arts and Sciences. They also may take advantage of the job search services of the Education Career Services Office, 270 Huntington Hall.

Social Studies Education

Contact: Jeffery Mangram, 150 Huntington Hall, 315-443-2685 or jamangra@syr.edu

In addition to the professional education requirements, students in social studies education complete the Bachelor of Arts in a social science subject area and the following requirements:

Core Requirements

Social studies education majors must complete the Liberal Arts Core curriculum with these additional specific requirements:

One mathematics course-Statistics (MAT 121 or 122) is recommended (can also meet one of the program's research requirements)	(3 credits)
One fine arts within Arts and Sciences (FIA) course	(3 credits)
One humanities course (other than history (HST) or fine arts (FIA))	(3 credits)

Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study.

Social Studies Content

* Social studies majors are required to complete a major in an area chosen from African American studies, American studies, anthropology, economics, geography, history, international relations, political science, policy studies, or sociology. If African American Studies or American Studies is chosen, all courses other than required humanities courses must be social science classes.

If history is not the chosen major, the following 18 credits of history must also be completed:

HST 101 American History to 1865 (3 credits)
HST 102 American History Since 1865 (3 credits)
HST 111 Early Modern Europe, 1350-1815 (3 credits)
HST 112 Modern Europe: Napoleon to the Present (3 credits)
One nonwestern history course (3 credits)
One upper-division history (300-level or above) by advisement (3 credits)

All majors must complete a course in economics (ECN), political science (PSC), and geography (GEO) from the social science list.

All majors must complete SED 522 Study of Social Studies.

* See specific departmental major course requirements for your chosen content major.

Sociology Major

Andrew S. London, Chair
302 Maxwell Hall,
315-443-2346.

Undergraduate Director Marjorie DeVault,
302 Maxwell Hall,
315-443-4030.

The undergraduate major in sociology is designed to provide students with both a broad introduction to the field and an opportunity for concentration within the specialty areas of the department. In addition to required courses in sociological theory and research methods, the department offers a variety of substantive courses with opportunity for specialization in inequality studies (e.g., gender, class, race and ethnicity, sexuality, and disability); criminology and criminal justice; health; education; immigration; aging, the life course, and social policy; and qualitative and feminist methods.

In addition to substantive specialization, the major emphasizes skill development in the areas of analytic reasoning, analytic writing, computer literacy, elementary qualitative and quantitative research, information retrieval, and report presentation. Opportunities for internship experiences and/or assisting in faculty research projects are available and encouraged. Majors are encouraged to participate in a senior research seminar culminating in a symposium where they present the results and interpretation of their own research project.

MAJOR REQUIREMENTS

Students are required to take 30 credits in sociology, including SOC 101,318,319,406. The 30 credits include an additional five courses, four of which must be numbered above 299. One of the additional courses may be taken at the 200 level. SOC 513 is recommended for those planning graduate study in the social sciences. Students may choose between completing a senior thesis or completing another substantive course above 299 to fulfill the remaining 3 credits. Students are advised to take SOC 101 before enrolling in other courses. Research courses should be taken in the junior year.

Sociology Minor

Chair: Andrew S. London, 302 Maxwell Hall, 315-443-2346
Undergraduate Director Marjorie DeVault, 302 Maxwell Hall, 315-443-4030

When students declare a minor in sociology, they work with an advisor to develop a sequence of courses that reflects their needs and desires. To complete a minor in sociology, students fulfill the following requirements:

Prerequisite

SOC 101 Introduction to Sociology

Required Courses

SOC 318 Introduction to Research, or
SOC 319/WGS 317 Qualitative Methods in Sociology

Electives

Any four additional sociology courses, three of which must be numbered above 299. One of the additional courses may be taken at the 200 level.

Sociology Secondary Teacher Preparation Program

Combined Bachelor's/Master's Degrees - Secondary Teacher Preparation Programs

School of Education contact: Marie Sarno, Teaching and Leadership Programs, 138 Huntington Hall. mrsarno@syr.edu

This combined degree option, offered by the College of Arts and Sciences and the School of Education meets the academic requirements for a New York Teaching certification for grades 7-12 in social studies. It is an alternative to the existing undergraduate Arts and Sciences/Education dual programs in these areas, and an option that often takes less time and fewer credits than earning the entire master's degree in education after completion of a general Arts and Sciences degree.

The combined bachelor's/master's teacher preparation programs were designed to meet the needs of Arts and Sciences undergraduates who, because of a later decision to become a teacher, would need to add a semester or more to their undergraduate study to complete the existing undergraduate Arts and Sciences/Education program. It also serves those who want or need more flexibility in their undergraduate program than the dual undergraduate degree allows.

Both the Arts and Sciences undergraduate degree with a major related to the subject to be taught, and the School of Education master's degree are conferred at the same time, after all requirements are met – typically at the end of 5 years. Students begin taking education courses as undergraduates, including some in the fourth year that are taken for graduate credit, and apply to become graduate students for their last two semesters. Some summer study (not necessarily at SU) may be required.

The combined program has a two-stage admission process. The first stage involves meeting with the School of Education contact as early as possible to develop a plan, and, if a decision to pursue the program is made, completing a form signed by Education and a new declaration of program of study form in Arts and Science to declare the Arts and Sciences program with “Teacher Preparation/5 year” appended to the title Sociology. The second admission stage involves an application to graduate school. Each admission stage requires a 3.0 cumulative GPA and a 3.0 GPA in the courses from the subject to be taught. The second stage also requires successful performance in the undergraduate education courses.

The choices of Arts and Sciences majors, and the course requirements for the Arts and Sciences major, the Liberal Arts Core, and other requirements related to the major are the same for these combined programs as those for students completing the dual enrollment undergraduate Arts and Sciences/Education program. These details about specific adjustments necessary to the Liberal Arts Core and to Arts and Sciences major may be found in the section describing Dual Arts and Sciences/ Education Programs.

Because of the specific course requirements and sequencing of courses, it is important that students interested in one of these programs meet with the Education contact as soon as possible to develop a plan. EDU 204, the first education course, must be taken no later than spring of the junior year.

South Asian Studies Minor

South Asian Studies
Susan Wadley
441 Hall of Languages
315-443-1011

Faculty Carol Babiracki, Subho Basu, Shobha K. Bhatia, Tej K. Bhatia, Himika Bhattacharya, Douglas Biklen, Mehrzad Boroujerdi, Richard L. Breyer, Michael P. Carey, Tula Goenka, Ann Grodzins Gold, Tazim R. Kassam, Prema Kurien, Devashish Mitra, Mona Mittal, Chandra Talpade Mohanty, Iswari P. Pandey, Sudha Raj, Romita Ray, Jaipaul L. Roopnarine, Larry Schroeder, Farhana Sultana, Cecilia Van Hollen, Susan S. Wadley, Joanne P. Waghorne

The minor in South Asian Studies provides an understanding of the religious, historical, economic, political and artistic dimensions of the nations of South Asia: Afghanistan, India, Nepal, Pakistan, Sri Lanka, and Bangladesh. In consultation with the advisor, students plan the minor according to their individual interests.

Requirements

The minor requires 18 credits, 12 of which are in courses numbered 300 or above. While not required we urge students to take at least one, if not more, courses in Hindi-Urdu or Pashto.

Students are required to take one of these two courses:

HST/SAS 329 Making of Modern India
ANT/SAS/WGS 324 Modern South Asian Cultures.

In addition, at least three more courses are to be selected from the following list:

HOM 384/SAS 385 Music and Dance of India
HIN/SAS 101 Hindi/Urdu I
HIN/SAS 102 Hindi/Urdu II
HIN/SAS 201 Hindi/Urdu III
HIN/SAS 202 Hindi/Urdu IV
HIN/SAS 620 Advanced Hindi
HST/SAS 328 Ancient and Medieval India
REL/SAS 165 The Islamic Tradition
REL/SAS 185 Hinduism
REL/SAS 186 Buddhism
REL/SAS 283 India's Religious Worlds
REL/SAS/WGS 384 Goddesses, Women, and Power in Hinduism

Students may choose one course from the following list:

HOM 383 Worlds of Dance
HOM 385 World Music Cultures
HOM/WGS 494 Music and Gender
HST 375 British Empire

REL/SAS 123 Religious Auto/Biography
REL 324 Religions and Storytelling
REL/SAS 367 Islamic Arts and Aesthetics
REL 395 Religions and the Natural Environment
REL/SAS 465 Gender in Islam

In Addition, students may petition to fulfill their requirements using appropriate check list selected topics courses dealing with South Asia or courses taken on study abroad programs in South Asia, as well as the Muslim Cultures Program in London.

Spanish Minor

Spanish
Kathryn Everly
Languages, Literatures, and Linguistics
329 H.B. Crouse
315-443-2042

A minor in Spanish consists of a minimum of 18 credits. Three credits from SPA 202 may be applied to the minor. SPA 301 Approaches to Reading Texts is a requirement for all majors and minors. It is recommended that students take SPA 301 immediately following SPA 202 and before entering any 400-level course. At least 6 credits of 300-level courses must be taken before entering the 400 level. At least 6 credits of 400-level courses are required for the minor.

Spanish Language, Literature And Culture Major

Kathryn Everly
Languages, Literatures, and Linguistics
329 H.B. Crouse
315-443-2042.

The B.A. in Spanish language, literature, and culture offers cross-disciplinary exposure to the various literary genres and linguistic analyses of Spanish, South American, Central American, Caribbean, and Latino cultures. The language and history of the regions encourage students to formulate diverse theoretical models and cultural perspectives, which may be applied to a variety of career options. Courses range from the beginning level through a series of 300- and 400-level courses that allow students to pursue a major or minor in Spanish. All students with more than one year of high school Spanish are required to take a placement examination, which is given every fall. Students who do not take the exam in the fall should consult the Spanish language coordinator about their placement. The examination is a requirement for all students regardless of class standing.

First-year students need permission to enroll in courses numbered 300 or above. SPA 202 or its equivalent is a prerequisite for courses numbered 300 and above. Students, including transfers, with credits earned in Spanish, should consult the major advisor of Spanish as early as possible. Early consultation is also important for students with little or no preparation in Spanish so they may be sure to satisfy prerequisites and requirements within four years.

STUDY ABROAD

To become fluent in the language and to learn about other cultures and people, students are encouraged to study abroad for a semester or a year. Syracuse University's programs in Madrid, Spain and Santiago de Chile allow students to take fully accredited courses in Spanish language and literature, anthropology, fine arts, history, political science, and public communication. Students should take all of their courses in Spanish. Students choosing Spanish as a major are encouraged to take advantage of the study abroad program in Madrid or Santiago. Through the Dominican Republic Consortium students also have the opportunity to study in the Caribbean. For further information, contact the Spanish program coordinator or Syracuse University Abroad, 106 Walnut Place.

MAJOR REQUIREMENTS

The major in Spanish consists of 27 credits in upper division courses taught in Spanish. Three credits from SPA 202 may be applied to the major. SPA 301 Approaches to Reading Texts is a requirement for all majors and minors. It is recommended that students take SPA 301 immediately following SPA 202 and before entering any 400-level course. At least 6 credits of 300-level courses must be taken before entering the 400 level. At least 12 credits of 400-level courses are required for the major.

Women's And Gender Studies Major

Chandra Talpade Mohanty, Chair
208 Bowne Hall
315-443-3707 Fax: 315-443-9221

Administrative Specialist: Susann DeMocker-Shedd,
208 Bowne Hall,
315-443-3560;
Fax 315-443-3560.

Faculty Kal Alston, Himika Bhattacharya, Nancy Cantor, T. Jackie Cuevas, Vivian M. May, Chandra Talpade Mohanty, Gwendolyn D. Pough, Minnie Bruce Pratt, Robin Riley

Women's and Gender Studies integrates theory and practice with the aim of transforming social relations, representations, knowledges, institutions, and policies. Through interdisciplinary and comparative approaches, students engage in the study of gender intersectionally and transnationally as a means of understanding the complex ways that ideas and practices about gender, past and present, shape the world around us. Issues of justice, social and economic transformation, and women's agency are central and at each level of study the curriculum emphasizes race, ethnicity, nationality, class, age, sexuality, and

different abilities as categories of analysis.

MAJOR REQUIREMENTS

The B.A. in women's and gender studies requires a minimum of 33 credits (at least 18 in courses numbered 300 and above) selected from courses listed below. Although the major is granted and administered under the auspices of the College of Arts and Sciences, students are able, and in some cases encouraged, to take elective courses in the professional schools. Requirements for the major include five core courses, three courses from the course grouping Power, Privilege, and Exclusion in Feminist Thought; and three electives, two core electives and one general elective selected from a list of approved cross-listed courses. In the senior year, majors may create a synthesis of their studies in the field and deepen their skills in women's and gender studies research, culminating in an independent project that can be a research project, creative work, or activism project. Note: Students seeking Academic Distinction in Women's and Gender Studies must register for WGS 498 Senior Project in Women's and Gender Studies.

STUDY ABROAD

Women's and Gender Studies Focus Abroad is coordinated through the Syracuse University Abroad office in more than five countries. All of these international centers offer a number of interdisciplinary courses in women's and gender studies, cross-listed with the humanities and social sciences. Summer Studies Abroad courses are also available. For specific information on course offerings abroad, contact the SU Abroad office at 315-443-3471.

B.A. DEGREE REQUIREMENTS

Required Core Courses (15 credits)

WGS 101 Introduction to Women's and Gender Studies
WGS/ANT 201 Transnational Feminist Studies
WGS 301 Feminist Theory
WGS 310 Feminist Inquiries
WGS 410 Advanced Seminar in Feminisms

Required Core Cluster Power, Privilege, and Exclusion in Feminist Thought (9 credits)

One course must be selected from each of the following three areas: Sexuality; Class; and Race, Nationality, and/or Ethnicity.

Sexuality (3 credits)

WGS/ETS 192 Gender and Literary Texts
WGS/SOC 230 Intergroup Dialogue: Gender
WGS/SOC 305 Sociology of Sex and Gender
WGS/PSC 319 Gender and Politics
WGS/SOC 355 Sociology of Health and Illness
WGS/ETS 360 Reading Gender and Sexualities
WGS/CFE 362 Youth, Schooling, and Popular Culture
WGS 365 Negotiating Difference: Coming of Age Narratives
WGS/ANT 373 Magic and Religion
WGS 395 Gender and Popular Culture
WGS/CRS 414 Communication and Gender
WGS/SOC 425 Feminist Organizations
WGS/SOC 433 Race, Class, and Gender
WGS/SOC 435 Sexual Politics
WGS/QSX 438 TransGender and Sexualities
WGS 439 Women, Gender and Violence in Transnational Context
WGS/PHI 441 Topics in Feminist Psychology
WGS/AAS 445 The Caribbean: Sex Workers, Transnational Capitalism, and Tourism
WGS/QSX 447 Sexualities and Genders in World Teen Cultures
WGS 449/HOA 440 Women in Art
WGS 452 Feminism and Postcolonial Studies
WGS/REL 465 Gender in Islam
WGS 473 Women, Rap, and Hip Hop Feminism
WGS/HOM 494 Music and Gender
WGS/GEO 576 Gender, Place, and Space

Class (3 credits)

WGS/ECN 258 Poverty and Discrimination in America
WGS/SOC 281 Sociology of Family
WGS 318/PSC 328 American Social Movements
WGS/ECN 325 Economics and Gender
WGS/SWK 326 Persons in Social Contexts
WGS/HST 335 American Social and Cultural History
WGS 354 Gender, Militarism, and War
WGS/SOC 355 Sociology of Health and Illness
WGS/ECN 358 Economics of U.S. Poverty and Discrimination
WGS/ANT 363 Anthropology of Family Life
WGS/SOC 364 Aging and Society
WGS/PSC 374 Law and Society
WGS/SOC 425 Feminist Organizations
WGS/AAS 427 NYC: Black Women Domestic Workers
WGS/SOC 433 Race, Class, and Gender
WGS 436 Feminist Rhetoric(s)
WGS 439 Women, Gender and Violence in Transnational Context
WGS/AAS 445 The Caribbean: Sex Workers, Transnational Capital, and Tourism

WGS/ANT 472 Language, Culture, and Society
WGS 473 Women, Rap, and Hip Hop Feminism
WGS/SOC 492 Work and Inequality
WGS/NSD 555 Food, Culture, and Environment
WGS/GEO 576 Gender, Place, and Space

Race, Nationality, and/or Ethnicity (3 credits)

WGS/SOC 230 Intergroup Dialogue: Race and Ethnicity
WGS/SOC 248 Ethnic Inequality
WGS/PHI 297 Philosophy of Feminism
WGS/AAS 303 Black Women Writers
WGS/AAS 307 African Women Writers
WGS 327/ANT 326 Africa Through the Novel
WGS/SWK 328 Human Diversity in Social Context
WGS/REL 341 Women, Abolition, and Religion in 19th-Century America
WGS 354 Gender, Militarism, and War
WGS/SOC 355 Sociology of Health and Illness
WGS 365 Negotiating Difference: Coming of Age Narratives
WGS/ANT/GEO 367 Gender in a Globalizing World
WGS/HST 371 Gender in Latin American History
WGS/REL 384 Goddess, Women, and Power in Hinduism
WGS 395 Gender and Popular Culture
WGS/AAS 403 African/Caribbean Women Writers
WGS/SOC 425 Feminist Organizations
WGS/AAS 427 NYC: Black Women Domestic Workers
WGS/SOC 433 Race, Class, and Gender
WGS 436 Feminist Rhetoric(s)
WGS 439 Women, Gender and Violence in Transnational Context
WGS/CFE 444 Schooling and Diversity*
WGS/AAS 445 The Caribbean: Sex Workers, Transnational Capital, and Tourism
WGS/QSX 447 Sexualities and Genders in World Teen Culture
WGS 452 Feminism and Postcolonial Studies
WGS/ANT 455 Culture and AIDS
WGS/ANT 472 Language, Culture, and Society
WGS/ANT 474 Culture and Folklore
WGS/SPA 475 Women, Myth, and Nation in Latin American Literature
WGS/ANT 478 Language and Gender
WGS/AAS 512 African American Women's History
WGS/AAS 513 Toni Morrison: Black Book Seminar
WGS/ANT 553 Women and Social Change

Core Electives (6 credits): students must complete two core elective courses from the following:

WGS 300 Selected Topics
WGS 354 Gender, Militarism, and War
WGS 365 Negotiating Difference: Coming of Age Narratives
WGS 395 Gender and Popular Culture
WGS 400 Selected Topics
WGS 410 Advanced Seminar in Feminisms
WGS 436 Feminist Rhetoric(s)
WGS 438 TransGenders and Sexualities
WGS 439 Women, Gender and Violence in Transnational Context
WGS 447 Sexualities and Genders in World Teen Culture
WGS 452 Feminism and Postcolonial Studies
WGS 473 Women, Rap, and Hip-Hop Feminism
WGS 498 Senior Project in Women's and Gender Studies
WGS 500 Selected Topics

General Electives (3 credits)

Students must complete one elective course. They may choose from any WGS course.

*Course content varies each semester or by section. These courses may be counted toward women's and gender studies only when the content of the courses is within the field of feminist studies. Selected topics (400/500) courses may apply when appropriate.

Women's And Gender Studies Minor

Chandra Talpade Mohanty, Chair
208 Bowne Hall
315-443-3707

The minor in women and gender studies requires 21 credits of coursework (at least 15 in courses numbered 300 or above). In keeping with the guidelines for the major, the concentration requires students to take the five core courses listed below and two electives, one core elective, and one general elective chosen from an approved list of cross-listed courses.

WGS 101 Introduction to Women's and Gender Studies
WGS 201 Transnational Feminist Studies
WGS 301 Feminist Theory
WGS 310 Feminist Inquiries
WGS 410 Advanced Studies in Feminist Thought

Core Elective Listing (same as Major)

WGS 300 Selected Topics
WGS 354 Gender, Militarism, and War
WGS 365 Negotiating Difference: Coming of Age Narratives
WGS 395 Gender and Popular Culture
WGS 400 Selected Topics
WGS 410 Advanced Seminar in Feminisms
WGS 436 Feminist Rhetoric(s)
WGS 438 TransGenders and Sexualities
WGS 439 Women, Gender and Violence in Transnational Context
WGS 447 Sexualities and Genders in World Teen Culture
WGS 452 Feminism and Postcolonial Studies
WGS 473 Women, Rap, and Hip-Hop Feminism
WGS 498 Senior Project in Women's and Gender Studies
WGS 500 Selected Topics

Women's And Gender Studies Secondary Teacher Preparation Program

Combined Bachelor's/Master's Degrees - Secondary Teacher Preparation Programs

School of Education contact: Marie Sarno, Teaching and Leadership Programs, 138 Huntington Hall. mrsarno@syr.edu

This combined degree option, offered by the College of Arts and Sciences and the School of Education meets the academic requirements for a New York Teaching certification for grades 7-12 in social studies. It is an alternative to the existing undergraduate Arts and Sciences/Education dual programs in these areas, and an option that often takes less time and fewer credits than earning the entire master's degree in education after completion of a general Arts and Sciences degree.

The combined bachelor's/master's teacher preparation programs were designed to meet the needs of Arts and Sciences undergraduates who, because of a later decision to become a teacher, would need to add a semester or more to their undergraduate study to complete the existing undergraduate Arts and Sciences/Education program. It also serves those who want or need more flexibility in their undergraduate program than the dual undergraduate degree allows.

Both the Arts and Sciences undergraduate degree with a major related to the subject to be taught, and the School of Education master's degree are conferred at the same time, after all requirements are met – typically at the end of 5 years. Students begin taking education courses as undergraduates, including some in the fourth year that are taken for graduate credit, and apply to become graduate students for their last two semesters. Some summer study (not necessarily at SU) may be required.

The combined program has a two-stage admission process. The first stage involves meeting with the School of Education contact as early as possible to develop a plan, and, if a decision to pursue the program is made, completing a form signed by Education and a new declaration of program of study form in Arts and Science to declare the Arts and Sciences program with “Teacher Preparation/5 year” appended to the title Women's and Gender Studies. The second admission stage involves an application to graduate school. Each admission stage requires a 3.0 cumulative GPA and a 3.0 GPA in the courses from the subject to be taught. The second stage also requires successful performance in the undergraduate education courses.

The choices of Arts and Sciences majors, and the course requirements for the Arts and Sciences major, the Liberal Arts Core, and other requirements related to the major are the same for these combined programs as those for students completing the dual enrollment undergraduate Arts and Sciences/Education program. These details about specific adjustments necessary to the Liberal Arts Core and to Arts and Sciences major may be found in the section describing Dual Arts and Sciences/ Education Programs.

Because of the specific course requirements and sequencing of courses, it is important that students interested in one of these programs meet with the Education contact as soon as possible to develop a plan. EDU 204, the first education course, must be taken no later than spring of the junior year.

Writing And Rhetoric Minor

Writing and Rhetoric
Eileen E. Schell
239 H.B. Crouse
315-443-1091

In addition to offering both a major and a minor, the Writing Program coordinates and facilitates writing instruction across the curriculum within the University. The goal of the Writing Program is to integrate writing with reading and critical thinking in all disciplines and to encourage continuing development of these abilities. The program cooperates with other units to help writers and teachers achieve these goals.

Syracuse University students usually take WRT 105 (Studio 1: Practices of Academic Writing) and WRT 205 (Studio 2: Critical Research and Writing). Writing Studios 1 and 2 serve as pre-requisites for upper-division writing courses.

WRT 105—taken in the first semester of the first year—focuses on the study and practice of writing processes, including critical reading, collaboration, revision, editing, and the use of technologies. Academic writing—especially analysis and argumentation—is the focus.

WRT 205—normally taken in the spring of the second year—builds on the work of WRT 105 and the experiences of writing during the first year. Students study and practice critical, research-based writing, including research methods, presentation of ideas and information, and source evaluation.

At the upper division, students may take advanced courses in civic, researched, digital, and professional writing, in style and editing, and in creative nonfiction, as well as study rhetoric and identity, information technologies, literacy, and the politics of language and writing.

The Writing Program is also home to The Writing Center (H.B.Crouse 101; 315-443-5289), a resource for all writers at Syracuse University. See our web site at wrt.syr.edu for more information.

MINOR IN WRITING

The minor in writing offers students the opportunity to develop expertise in writing for academic, professional, civic, and personal purposes. The coursework provides practice in writing in a range of genres, editing and style, publishing, and digital media. Courses also investigate rhetoric, information technology, the politics of language use, and language and identity.

Requirements

The minor in writing is available to all undergraduates at Syracuse University. Students must have credit for WRT 105 and WRT 205, or equivalent. Students may begin the minor before completing WRT 205. The minor requires 18 credits: WRT 255 plus 15 WRT credits numbered 300 or above, excluding WRT 320.

Writing And Rhetoric Major

Director and Chair Eileen E. Schell,
239 H.B. Crouse,
315-443-1091.

Faculty Lois Agnew, Collin G. Brooke, Margaret Himley, Krista Kennedy, Rebecca Moore Howard, Iswari P. Pandey, Stephen Parks, Gwendolyn D. Pough, Minnie Bruce Pratt, Eileen E. Schell

In addition to offering both a major and a minor, the Writing Program coordinates and facilitates writing instruction across the curriculum within the University. The goal of the Writing Program is to integrate writing with reading and critical thinking in all disciplines and to encourage continuing development of these abilities. The program cooperates with other units to help writers and teachers achieve these goals.

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WRT 205—normally taken in the spring of the second year—builds on the work of WRT 105 and the experiences of writing during the first year. Students study and practice critical, research-based writing, including research methods, presentation of ideas and information, and source evaluation.

At the upper division level, students may take advanced courses in civic, researched, digital, and professional writing, style and editing, and in creative nonfiction, as well as study rhetoric and identity, information technologies, literacy, and the politics of language and writing.

The Writing Program is also home to The Writing Center (H.B.Crouse 101; 315-443-5289), a resource for all writers at Syracuse University. See our web site at wrt.syr.edu for more information.

MAJOR REQUIREMENTS

To qualify for a B.A. degree in Writing and Rhetoric, students complete a total of 27 credits of coursework. These credits include WRT 255, three courses from Genres and Practices, four courses from Writing Histories and Theories, and one from Internships.

Required Introductory Course (3 credits)

WRT 255 Advanced Argumentative Writing

Genres and Practices (9 credits)

WRT 301 Civic Writing
WRT 302 Digital Writing
WRT 303 Research Writing
WRT 307 Professional Writing
WRT 308 Style
WRT 407 Advanced Workshop in Professional, Disciplinary, or Technical Writing
WRT 417 Advanced Technical Documentation
WRT 419 Advanced Technical Writing Workshop
WRT 422* Studies in Creative Nonfiction
WRT 427 Writing in Design and Development Environments

Writing Histories and Theories (12 credits)

WRT 423 African American Rhetoric
WRT 424* Studies in Writing, Rhetoric, and Identity
WRT 426* Studies in Writing, Rhetoric, and Information Technology
WRT 428* Studies in Composition, Rhetoric, and Literacy
WRT/WGS/CRS 436 Feminist Rhetoric(s)

WRT 440 Studies in the Politics of Language and Writing
WRT 437 Information Architecture and Technical Documentation
WRT 447 Technical Writing for a Global Audience

Internship (3 credits)

WRT 331 Peer Writing Consultant Practicum
WRT 340* Advanced Editing Studio
WRT 430* Advanced Experience in Writing Consultation
WRT 470 Internship in Writing (community or business-based internships; wrt.syr.edu/internships/)

*These courses are repeatable.

Students may choose up to two courses taught in other units, from the following list of courses, to fulfill the Writing major requirements: Genres and Practices (ETS 401, ETS 403, NEW 205, BDJ 204, ADV 207, PRL 214); Writing Histories and Theories (ETS 325, ETS 420, ETS 440, CRS 336, CRS 338, CRS 355, CRS/WGS 414, CRS 455, CRS 483)

DISTINCTION IN WRITING AND RHETORIC

Students may earn the award of Distinction in Writing if the following criteria are met. First, the student must have an overall cumulative GPA of 3.4 and a minimum GPA of 3.5 in WRT after taking at least four Writing and Rhetoric major courses to be eligible to enroll in WRT 495 and WRT 496, Senior Research Seminars 1 and 2. Second, the student must complete a total of 3 credits in WRT 495 and WRT 496 and a thesis-length independent research or creative project. Third, the student must complete the senior year with a minimum cumulative GPA of 3.4 and GPA of 3.5 in the Writing and Rhetoric major courses.

THE ELECTRONIC PORTFOLIO

All Writing majors are encouraged to produce and maintain an electronic writing portfolio. This portfolio allows students in the Writing major to archive and demonstrate their expertise within and across multiple genres and rhetorical contexts. Electronic writing portfolios serve as a record of each student's development and growth as a writer over their course of study.

Courses

African American Studies

AAS 112 Introduction to African American Studies in Social Sciences 3 S
Crosslisted with: ANT 112
Historical and sociopolitical materials. Approaches to studying the African American experience, antecedents from African past, and special problems.

AAS 138 Writing About Black Culture 3 S
Expository writing based on cogent analysis of African American literature, art, music, and history ideas.

AAS 200 Selected Topics 1-3 Y
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

AAS 202 Caribbean Society Since Independence 3 Y
Issues of self determination and emancipation in region. From the period of the invasions of explorers after the European renaissance to the present.

AAS 206 Introduction to African American Music 3 Y
Introduces students to the contributions and transformations made in the music that the enslaved African brought to the western hemisphere.

AAS 207 A Survey of African Music 3 Y
Survey music from Morocco to South Africa using diverse media to illuminate this vast area. The concentration will be on the lifestyle of the people who create music.

AAS 231 African American Literature to 1900: An Introduction 3 Y
African American literature and folklore from colonial days to 1900. Autobiographies, fiction, and poetry, including works by Wheatley, Douglass, Jacobs, Brown, Webb, Hopkins, Dunbar, Chesnut, Dubois, Johnson, Washington.

AAS 232 African American Literature: Twentieth and Twenty-First Centuries 3 Y
Survey of 20th and 21st Century African American literature (U.S. terrain). Emphasis on aesthetics, culture and politics of Black writers and writing: 1920's to present. Literary and cultural frameworks of analysis. Baldwin, Dandicat, Hurston, Morrison, Sanchez, Wilson and Wright.

AAS 233 The Caribbean Novel 3 Y
Fiction in English and translation by writers from Caribbean areas, and Brazil. Historical, social, and cultural factors. Representations and concepts of gender, home, and migration. Barrett, Conde, Hodge, James, Lamming, Marshall, Roumain.

AAS 234 African Fiction 3 Y
Fiction in English and translation by contemporary novelists from Africa. Thematic and conceptual approaches underscore the literary force of language and creativity. Social and literary dynamics of books and related films. Achebe, Adichie, Aidoo, Ba, Dadie, Diop, Head, Ngugi, Sembene.

AAS 235 African American Drama 3 Y
African American drama from inception to present. Includes the works of playwrights such as Brown, Grimke, Hughes, Hansberry, Baldwin, Baraka, Ward, Fuller, and Wilson.

AAS 241 African Religions: An Introduction 3 O
Crosslisted with: REL 281
Historical and comparative study of religious practice in Africa. Diversity of traditional beliefs, developments in Christianity and Islam, and political significance of religious identity and practice. African influence on western religious practices.

AAS 254 Comparative Study of American Ethnic Communities 3 IR
Crosslisted with: SOC 254
Variety of ethnic communities in American society. Comparative analysis of similarities and uniqueness. Issues of group conflict, diversity, and unity.

AAS 290 Independent Study 1-6
In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

AAS 300 Selected Topics 1-3
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

AAS 302 Contemporary African American Theater 3 S
Themes, images, and aesthetics of contemporary African theater examined through works of contemporary Black playwrights, scholars, and critics. Includes behind-the-scenes study of an African American theater production.

AAS 303 Black Women Writers 3 Y
Crosslisted with: WGS 303
Literature and scholarship by Black women writers. Analytical reading, writing and discussion of various topics, stylistic questions, strategies generated in autobiography, fiction, drama, poetry, speeches and scholarship: 1960's to present, and earlier times. Bambara, Davis, Hurston, Jones, Lorde, Morrison, Williams.

AAS 304 Workshop: African American Theater 3 Y
How text of play by Black writer is realized in an on stage production. Introduction to aspects of production (costuming, lighting, sound) and study of play selected and related materials. Production experience by work on full stage production.

AAS 305 African Orature 3 Y
Theory and practice of African orature. Exploration of ethics and aesthetics through study of main genres, selected texts, and film. Discourse on application and linkages with Caribbean and African American orature forms.

AAS 306 African American Politics 3 Y
Crosslisted with: PSC 306
Introduction to the African American experience in the American political system, from the colonial period to the present. Organization/leadership, federal institutions/relations, sociopolitical movements, and electoral politics.

AAS 307 African Women Writers 3 Y
Crosslisted with: WGS 307
Literature in English and translation by African women writing from a variety of cultural stances and geographic locations in Africa, Europe and North America. Writing styles and creative modes of expression used by African women writers to convey and envision the life of their work. Adichie, Aidoo, Dangaremba, El Sadaawi, Liking, Mbye d'Erville, Tadjou.

AAS 309 Race, Gender and Sexuality in African Diaspora 3 S
Crosslisted with: SOC 309, WGS 309
To introduce students to the reality of how racism informs the common sense understanding of Black sexuality.

AAS 310 Elements of Theater Production 3 Y
A practical look at various steps of production, while accessing factors which contribute to successful theater. R1, 6 credits maximum

AAS 312 Pan Africanism 3 Y
Impact of Pan African thought and action in the 20th century. Focus on social movements and ideas reflected in the Pan African movement in the continent and the African diaspora.

AAS 325 Africa to 1800 3 IR
Crosslisted with: HST 325
The first half of a two semester survey focusing on the evolution of African cultures and civilization in the traditional period. Topics: the emergence of man, migration of peoples, economic and social systems, state formation, the slave trade. Arabic influences and the early European settlement in South Africa.

AAS 326 Africa Since 1800 3 IR
Crosslisted with: HST 326
Second half of the survey, studying Africa when it was affected by European peoples and cultures. Topics: penetration by European explorers and missionaries, imperialism and colonialism, African resistance and rebellion, nationalism and liberation, neocolonialism and other problems of independence. AAS/HST 325 is not a prerequisite.

AAS 327 History of Southern Africa 3 IR
Begins before arrival of Europeans in southern Africa. Economic, geographic, sociological, and political factors contributing to development of this unique, racially based modern state. Includes Afrikaaner diaspora, Euro-African conflict during the nineteenth century, Anglo-Boer War, from union to apartheid, and resistance to European domination.

AAS 331 The African American Novel: Twentieth and Twenty-First Centuries 3 E
Novelists such as Hughes, Larsen, Hurston, Toomer, Wright, Baldwin, Ellison, Gaines, Morrison, Walker, Briscoe, and Clarke will be included. The place of these authors in African American fiction in particular and American fiction in general will be analyzed.

AAS 332 African American History: Through the 19th Century 3 Y
Crosslisted with: HST 332
Cultural, economic, political, and social developments shaping experiences of North Americans of African descent. Foundations of collective identity and diversity. African American historiography. Interpretive and methodological issues in historical practice.

AAS 333 African American History: After the 19th Century 3 Y
Crosslisted with: HST 333
Continuation of AAS/HST 332.

AAS 338 Creative Writing Workshop 3 IR
Poetry and prose workshop. Students exposed to techniques of craftsmanship, use of meditation to expand the visionary experience, and aesthetic sensibilities that involve African American culture. Prereq: permission of instructor.

AAS 341 Politics of Africa 3 Y
Crosslisted with: PSC 341
Historical foundations of the move towards political freedom, democracy and self rule in Africa. Dynamics of the political process.

AAS 345 African American Religious History 3 Y
Crosslisted with: REL 345
Historical significance of religion for Americans of African descent. African and western forces shaping religious identity. Religious practices, beliefs, organizations, imagery, literature, theories, and activism. Historical perspectives on meanings of religion.

AAS 346 Comparative Third World Politics 3 Y
Crosslisted with: PSC 346
Examines thematically and comparatively the political systems of South America, Asia, and Africa, exploring topics such as colonization, decolonization, nation-building, the postcolonial state and its institutions, the recent wave of democratization, and the challenges of socioeconomic development.

AAS 352 Research in African American Community Programs 3 IR
The research process as part of continuing collaboration between African American Studies Department and African American community organizations.
PREREQ: ANY AAS ABOVE 300 OR AAS 470.

AAS 353 Sociology of the African American Experience 3 E
Crosslisted with: SOC 353
Theory and research of African American sociologists in the historical, social, and political context of American sociology. Relation of their work to the African American experience and its reception and impact in the public policy arena.

AAS 361 Art of the Black World 3 Y
Crosslisted with: HOA 386
Arts of the African Diaspora. Emphasis on African American Art. Seventeenth century to present. Gender, socioeconomic, political and cultural contexts. Artistic implications of Black culture in comparative perspective with other artists and artistic movements.

AAS 364 African International Relations 3 Y
Crosslisted with: PSC 364
The place of Africans in the international system; specific issues emanating from the decolonization process. Issues of militarism, humanitarianism, peacekeeping, and genocide; challenges of globalization.
PREREQ: AAS/PSC 341.

AAS 365 International Political Economy of the Third World 3 Y
Crosslisted with: PSC 365
Political and economic problems developing countries face in international economic relations, attempts to solve them. Discusses the making of the international system, the "third world," globalization, trade, debt, multinational corporations, multilateral lending agencies (IMF, World Bank).

AAS 367 Protestant Movements & African American Artists: 19th & 20th Centuries 3 IR
Influences, trends, and social significance of selected visual art expressions and philosophies that were designed to re-inforce or effect social change for blacks from slavery to the present.

AAS 380 International Course 1-12
Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the S.U. academic department to assign the appropriate course level, title, and grade for the student's transcript. R11, 12 credits maximum

AAS 390 Independent Study 1-6 IR
Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

AAS 400 Selected Topics 1-3 Y
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

AAS 402 Slavery and Abolition 3 Y
Crosslisted with: HST 402
Evolution and diverse character of North American slavery and antislavery. Slavery as labor, legal, and property system, cultural and political phenomenon, and social and economic network. Politics and ethics of abolition.

AAS 403 African and Caribbean Women Writers 3
Crosslisted with: WGS 403
Comparative approaches and trans-Atlantic analysis of literature by women writers from Africa and the Caribbean. Representations and constructions of social, political, and cultural life in colonial, neo-colonial, and contemporary contexts. Writers such as Ba, Brodber, Dangaremba, Marshall, Head, Dandicat, Nwapa.

AAS 408 Masters of American Black Music 3 Y
Double Numbered with: AAS 608
Various masters of African American music and how these masters brought beauty and happiness to the common place.

AAS 409 History of Jazz, 1940 to Present 3 Y
Double Numbered with: AAS 609
Determine why bebop was the most significant style development in the 20th century. How did it liberate the music from dance music to its own art form? Additional work required of graduate students.

AAS 410 Seminar on Social Change 3 IR
Crosslisted with: SOC 410
Changes in African American communities or in the circumstances of African Americans within a particular institutional arena. Movements to promote change and obstacles to change. Substantive focus varies. R

AAS 413 There Goes the Neighborhood: US Residential Segregation 3 IR
Crosslisted with: SOC 413
Chronicles patterns of racial residential segregation in the US by examining the methods that maintain racially distinct neighborhoods. Explores link between segregation and education, social mobility, health, and mortality.

AAS 416 Race, Crime and Punishment 3 SI
Crosslisted with: SOC 416
The multiple and complex relationships between race, the power to punish, and crime control policies and practice. Exploration of the theories of crime and punishment from classic to postmodern.

AAS 427 New York City: Black Women Domestic Workers 3 Y
Crosslisted with: SOC 427, WGS 427; Double Numbered with: AAS 627
Historical understanding of Black women's engagement in paid domestic work in the United States, increasing need for domestic workers in the ever-changing economy and family, and the social construction of Black women as "ideal" domestic workers.
Permission of instructor.

AAS 433 Harlem Renaissance: Literature and Ideology 3 E
Literature, politics, and social transformations during the Harlem Renaissance and New Negro Movements. Selected writers, intellectuals and activists in relation to national and international spheres of history, creativity, influence, and experience in the U.S., Europe, African, and the Caribbean. Writers such as Ida B. Wells, DuBois, Damas, Garvey, Hughes, Nadal, West.
PREREQ: AAS 231 OR 232.

AAS 434 Underground Railroad 3 SI
Crosslisted with: ANT 494, HST 434; Double Numbered with: AAS 634
Myth and history of the Underground in the context of African American freedom efforts. Emphasis on events, personalities, and sites in upstate New York. Student field research and exploration of archival and Internet resources. Additional work required of graduate students.

AAS 445 The Caribbean: Sex Workers, Transnational Capital, and Tourism 3 Y
Crosslisted with: SOC 445, WGS 445; Double Numbered with: AAS 645
A political economy approach to educating students about the human and capital costs of tourism to the Caribbean. The integral relationship between sex work and Caribbean tourism exposes the region's development that has resulted in its current configuration.

AAS 465 The Image of Blacks in Art and Film 3 Y
Examining images of African Americans in feature length films, beginning with the invention of the moving image to the present day. Comparisons with artistic images are grounded in gender, socioeconomic, political and cultural contexts.

AAS 470 Experience Credit 1-6 S
Supervised internship with a local community agency. R

AAS 480 International Course 1-12 IR
Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the S.U. academic department to assign the appropriate course level, title, and grade for the student's transcript. R

AAS 490 Independent Study 1-6
In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

AAS 500 Selected Topics 1-3 SI
Interdisciplinary seminar examining various areas of intellectual and research interests related to the American black experience. Integrates knowledge of historical, cultural, sociological, political, and economic issues. Prereq: lower-division course in the social sciences. R

AAS 501 African American Sociological Practice: 1900-45 3 IR
Intellectual traditions and histories of African American sociologists between 1900 and 1945. Understanding the nature of their contributions to various strands of American and Pan African social thought. Impacts on public policy.

AAS 503 Black Paris: Studies in Literature, Culture and Intellectual Life 3 E
Baldwin, "Bricktop", Cesaire, Conde, Diop, Himes, and Wright. Jazz, Negritude, and Presence Africaine. Literature, films, concepts, and contemporary issues involving: expatriation, colonialism, racism, and immigration; and places such as the Café Tournon, Belleville, the Louvre, and University of Paris.

AAS 510 Studies in African American History 3 IR
Crosslisted with: HST 510
Particular periods or aspects of African American history. R

AAS 512 African American Women's History 3 O
Crosslisted with: WGS 512
The intellectual, political, and social history of African American women from pre-colonial Africa to the re-emergence of black feminism in the late 20th-century United States.

AAS 513 Toni Morrison: Black Book Seminar 3 E
Crosslisted with: WGS 513
A multi-dimensional study of Morrison's bookwork: fiction, non-fiction, and scholarship. Involves conceptual frameworks and ideas that link this project with broader understandings and interpretations of Blacks in the world. A wide range of questions (i.e., aesthetics, feminisms, knowing-politics, language, race) derives from Morrison's literary witnessing of Black community life.

AAS 525 Research Methods in African American Studies 3 Y
Conceptual, technical, and ethical tools for research among populations in the African Diaspora. Guidelines and practice in reviewing literature and assessing historiography data gathering and analysis, interviewing, participant observation, and archival research.

AAS 540 Seminar: African American Studies 3-4 Y
Various areas of intellectual and research interests related to the American black experience. Integrates knowledge of historical, cultural, sociological, political, and economic issues. Undergraduates need permission of instructor. R

AAS 543 Religious Cultures of the American South 3 E
Crosslisted with: REL 543
Rise of "born again" evangelical Protestantism and its impact on the American South. Religious folkways that created the "Solid South" and black Christianity as an agent of transformation.

AAS 580 International Course 1-12 IR
Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the S.U. academic department to assign the appropriate course level, title, and grade for the student's transcript. R

AAS 590 Independent Study 1-6 IR
Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department.. R

Anthropology

ANT 100 Selected Topics 1-3 SI
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ANT 111 Introduction to Cultural Anthropology 3 S
Economics, politics, religion, symbolism, rites of passage, developmental cycle, and expressive culture. Required for Anthropology majors.

ANT 112 Introduction to African American Studies in Social Sciences 3 S
Crosslisted with: AAS 112
Historical and sociopolitical materials. Approaches to studying the African American experience, antecedents from African past, and special problems.

ANT 121 Peoples and Cultures of the World 3 S
Case studies of global cultural diversity. Exploration of daily life, rites of passage, marriage, family, work, politics, social life, religion, ritual, and art among foraging, agricultural, and industrial societies.

ANT 131 Introduction to Biological Anthropology 3 Y
Biological anthropology subfields; anthropology's relationship to history of science. Evolutionary theory; mechanisms of evolution; survey of the non-human primates; humans ancestral to modern Homo sapiens; and modern human variation. Required for Anthropology majors.

ANT 141 Introduction to Archaeology and Prehistory 3 Y
Survey of the prehistoric past spanning the origins of humankind through the rise of complex societies. Class activities and field trips provide a hands on introduction to archaeological interpretation.

ANT 145 Introduction to Historical Archaeology 3 Y

Crosslisted with: HST 145

Role of history and archaeology in our understanding of 17th- to 19th-century Europe, Africa, and America. Historical archeology as a mechanism to critique perceptions of the past. Firsthand record of ethnic groups and cultural settings not recorded in writing.

ANT 185 Global Encounters:Company World Views & Values Cross-Culturally 3 Y

Predominant views of reality and values in the cultures of Asia, Africa, and the Americas. Humanistic study of cultures and nature of cross-cultural understanding.

ANT 200 Selected Topics 1-3 SI

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ANT 201 Transnational Feminist Studies 3 Y

Crosslisted with: WGS 201

Comparative study of women's lives, experiences, histories, and struggles across national and regional borders. Focuses on questions of theory, methodology, and politics of knowledge involved in cross-cultural feminist studies.

ANT 202 Languages of the World 3 Y

Crosslisted with: LIN 202

Introduction to Universal Grammar. Similarities and differences in structures of human languages. Syntax and morphology. Theory development.
PREREQ: LIN 201.

ANT 270 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

ANT 273 Indigenous Religions 3 E

Crosslisted with: NAT 244, REL 244

The connections between material life and religious life in cultures throughout the world. The diverse ways that various cultures inhabit their landscapes.

ANT 290 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

ANT 300 Selected Topics 1-3 SI

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ANT 311 Anthropological Theory 3 Y

Anthropological theory focusing on debates about human nature, cultural and racial diversity, and the goals of anthropology as a discipline. Required for majors.

ANT 312 Race, Ethnicity & Cities 3 IR

Social and cultural variation throughout cities of the world. Historical, political, familial, and symbolic aspects of ethnicity, race, and social class in urban areas.

ANT 318 African Cultures 3 IR

Selected contemporary African cultures. West Africa and the impact of the slave trade. Aspects of colonialism and neocolonialism and their relationship to current social and political development.

ANT 322 South American Cultures 3 Y

Crosslisted with: LAS 318

Archaeology and cultural history. Racial, linguistic, and cultural areas from 1492 to today. Studies of contemporary Indian and Mestizo populations.

ANT 323 Peoples and Cultures of North America 3 IR

Crosslisted with: NAT 323

Racial, linguistic, and cultural areas of North America from the Rio Grande to the Arctic. Selected areas and tribes. Data from archaeology, historical records, and contemporary anthropological fieldwork.

ANT 324 Modern South Asian Cultures 3 SI

Crosslisted with: SAS 324, WGS 324

Societies of India, Pakistan, Bangladesh, and Sri Lanka. Social organization, economic and political structures, religions and world view, survey of languages, the arts. Transition and modernization, rural and urban problems.

ANT 325 Anthropology of American Life in Film 3 Y

Analysis of American culture using film and literature. Concept of "national character." Major cultural configurations and themes.

ANT 326 Africa Through the Novel 3 IR

Crosslisted with: WGS 327

Cultural, political, and social life of Africa and Africans through African literature. Each semester deals with a motif (e.g., novels of Achebe).

ANT 327 Anthropology of Race in Latin America and the Caribbean 3 IR

History of racial ideologies in Latin America and the Caribbean; interactions of racial ideologies with self concepts and life chances; racial ideologies' shaping of expressive culture and religion; antiracism movements and legislation; race and transnational migration.

ANT 331 Primate Evolution & Ethology 3 IR

Evolution of nonhuman primates and behavior patterns of their living descendants.
PREREQ: ANT 131.

ANT 346 Gender Through the Ages 3 IR

The study of gender in archaeology from the late Stone Age to Modern era.

ANT 348 History of Archaeology 3 IR

Double Numbered with: ANT 648

Tracing the discipline's origins with the Renaissance dilettante. Brief survey of scientific and quantitative methods.

ANT 349 Archaeology at the Movies:The Scientific Study of the Past in Popular Culture 3 Y

Introduction to modern archaeology and the scientific study of the past. Utilizing fictional portrayals of archaeological interpretation in popular culture the course examines some of the major research questions of modern anthropology.

ANT 352 Food, Culture and Identity 3 S

Offered only in London. Introduction to a variety of critical approaches; questions about power and representation; role of food in construction of identity. Enrollment in SU Honors Program or GPA of 3.4 or higher is required

ANT 355 Spanish Society and Pop Culture 3 S

Crosslisted with: SOC 345

Offered only in Madrid. Explores what is considered important, good, and fashionable in Spain today and how these values relate to historical developments as well as foreign influences.

ANT 356 Applied Anthropology 3 IR

Describes past and present uses of anthropology in social policy. Examines the discipline's role in addressing global issues such as economic development, environmental degradation, indigenous rights, refugees, and health care. Careers in nonacademic settings.

ANT 357 Health, Healing, and Culture 3 O

Cross-cultural perspective on illness, health, medicine, and the body; medical pluralism; biomedicalization; illness and moral reasoning; local and global political economies of health and healing; globalization and medicine. Applied medical anthropology.

ANT 363 Anthropology of Family Life 3 Y

Crosslisted with: WGS 363

Historical and cross-cultural study of forms of family and domestic organization, marriage, status and sex roles, ideals, and customs of family life.

ANT 365 Sexual Attraction in Cross-cultural Perspective 3 E

Sexual attractiveness across cultures. Cultural differences as well as cultural universals.

ANT 367 Gender in a Globalizing World 3 IR

Crosslisted with: GEO 367, WGS 367

Economic and cultural processes of globalization as they affect different groups of men, women, and households; including gender and work, gender and the media, and redefinitions of masculinity and femininity across the globe.

ANT 372 Issues in Intercultural Conflict and Communications 3 IR

Effects of various cognitive and value orientations on cross-cultural communication, particularly in the Third World. Impact of mass media, proselytization, dissimulation, tourism, and foreign aid on indigenous orientations and on communication.

ANT 373 Magic and Religion 3 S

Crosscultural study of magical and religious behavior, ritual, and belief systems in simple and complex societies. Specialists and their craft: shamans, priests. Curing, possession, witchcraft. Millennial and counterculture movements. Religious ideologies and innovations.

ANT 376 Folklore 3 SI

Folklore as a cultural system expressing the value orientations of nonliterate, illiterate, and minority populations. Various genres of folklore (myth, song, art) and the folklore of several specific societies.

ANT 377 Quilts and Community 3 Y

Explores role of quilts and quilting communities. Discussion, films, exploration of quilts and their makers-and communities that result. Class learns quilt making process. No sewing experience required.

ANT 382 Health in the Middle East 3 IR

Crosslisted with: HTW 382, MES 382
Surveys major cultural, biological and environmental features of the Middle East and relates them to aspects of health including infectious disease, chronic disease, reproductive health, population, war, poverty and globalization.
PREREQ: ANT 111 OR ANT 121.

ANT 390 Independent Study 1-6 S

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

ANT 400 Selected Topics 1-3 SI

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester R

ANT 404 Family and Gender in Renaissance Italy 3

Crosslisted with: HST 404, WGS 404
Historical and interdisciplinary exploration of life stages, rites of passage, marriage, family, social life, sodomy, prostitution, career options, and alternate life strategies as illustrated by case studies. Offered only in Florence.

ANT 405 Conservation and Management Protected Areas: South Africa-O TS 4 IR

Crosslisted with: GEO 405
Taught in South Africa through the Organization for Tropical Studies program. Analyze management of wildlife and natural resources within ecological, political, social, historical, and economic context of South Africa.

ANT 406 History and Culture of South Africa O TS 4

Taught in South Africa through OTS program. Human history of South Africa. Range of cultural, social aspects of current South African society. Origin and maintenance of cultural diversity of region, archaeological records, early migration patterns.

ANT 407 Environment and Policy in the Topics O TS 4

Taught in Costa Rica through OTS program. Issues conservation biology and policy: habitat degradation and fragmentation, design of nature reserves, land-use planning, agro ecosystems, environmental economics, and conservation ethics.

ANT 408 The Practice of Eros: A History of Sexuality in Europe (1400-1800) 3

Crosslisted with: HST 408, WGS 408
Authorized and "alternative" sexuality in Europe 15th to 18th centuries (especially Italy, France, and England.) "Licit love" (courtship, marriage, conjugal relations) as opposed to "illicit unions" (adultery, rape, prostitution, bestiality, homosexuality, lesbianism). Offered only in Florence.

ANT 409 A History of Witchcraft 3

Crosslisted with: HST 409, REL 409, WGS 409
History of witchcraft from various perspectives: its intellectual roots, the causes and dynamics of the witch-hunt, and the beliefs and self-perceptions of those who were called "witches". Offered only in Florence.

ANT 414 Cities, Spaces and Power 3 O

Double Numbered with: ANT 614
Processes of urbanization, migration, adjustments of peasants in cities, ethnic and cultural variation in urban areas. Cultural differences in industrial development. Uses of applied anthropology in urban situations. Sometimes offered abroad.

ANT 415 Culture & Personality 3 IR

The person-in-culture and the function of culture in personality formation. Cross-cultural problems of child rearing, learning and education, life-cycle patterns, cultural conditioning, normality, and deviance. The individual and cultural milieu.

ANT 417 Economic Anthropology 3 IR

Survey of primitive modes of production: major adaptive strategies (collecting, hunting, horticulture, and pastoralism), division of labor, and ecological influences impinging on these productive techniques.

ANT 422 Etruscans and Romans: Ancient Art and Society in Italy 3 Y

Crosslisted with: HOA 303
Explores art and society of ancient Italy from ca. 1000 B.C. to A.D. 138, with special emphasis on the early Etruscans through Rome under Hadrian. Requires previous course in art history. Offered only in Florence.

ANT 424 Negotiation: Theory and Practice 3 SS

Double Numbered with: ANT 624
Negotiation skills for resolving differences effectively and achieving mutually satisfying outcomes. Position based versus interest based negotiation. Advanced techniques of communication such as chunking, reframing, anchoring, metaphor and rapport to obtain negotiation outcomes of excellence. Additional work required of graduate students.

ANT 427 Brazil: Anthropological Perspectives 3 IR

Double Numbered with: ANT 627
History and culture of Brazil; indigenous populations; Afro-Brazilians; race and ethnic relations; development; kinship; gender; religion; urbanization; politics; nationalism; globalization. Additional work required of graduate students.

ANT 428 Transformation of Eastern Europe 3 IR

Double Numbered with: ANT 629
Change and continuity after the demise of communism as experienced by ordinary citizens. Transformations in agriculture, industry, social, and political institutions; the rise of ethnic nationalism; and ethnic conflict. Additional work required of graduate students.

ANT 429 Cultures of the Iberian Peninsula 3 Y

Taught in Spanish. A general cultural introduction to the peoples who populated Spain and Portugal. Emphasis on those living in the Iberian peninsula before Roman and Carthaginian settlement and their influence on future generations. Field study tours to archeological and historic sites. Offered only in Madrid.

ANT 431 Human Variation 3 IR

ANT 433 Human Skeletal Anatomy 3 Y
Introduction to methods and techniques in human osteology and anatomy (emphasis varies), which are basic in applied physical techniques involving measuring humans (anthropometrics). Some statistical analysis taught.

ANT 434 Anthropology of Death 3 E

Double Numbered with: ANT 634
Death in anthropological perspective. Survey of the many ways death has entered into the work of archaeologists, biological anthropologists, ethnographers and social theorists.

ANT 436 Forensic Anthropology 3 E

Double Numbered with: ANT 636
Surveys the application of skeletal biology and archaeology to the medico-legal field. Techniques of analysis, interpretation, and evaluation will be emphasized, and domestic and international case studies will be used to illustrate application.

ANT 440 Topics in African Archaeology 3 SI

Double Numbered with: ANT 640
Topics might include West African Archaeology, Iron Age and Stone Age Africa, the Nile Valley, and East and Southern Africa. Additional work required of graduate students.
PREREQ: ANT 141 OR 145. R

ANT 442 Methods in Archaeology 3 O

Double Numbered with: ANT 642

Formulation and conduct of archaeological research with a focus on field and laboratory methods used to obtain and analyze data. Survey techniques, excavation strategies, archaeological classification, and data base management. Additional work required of graduate students.

PREREQ: ANT 141 OR 145.

ANT 443 Field Methods in Archaeology 6 SS

Supervised training in the excavation of a prehistoric archaeological site, including cataloging and accessioning of artifacts. R

ANT 444 Laboratory Analysis in Archaeology 3 E

Double Numbered with: ANT 644

Introduction to archaeo-logical materials analysis, artifact-classification systems, processing of data, materials analyses (ceramic, lithic, etc.). Conservation and curation of collections. Extra work required of graduate students.

PREREQ: ANT 141, ANT 145.

ANT 445 Public Policy and Archaeology 3 IR

Crosslisted with: NAT 445; Double Numbered with: ANT 645

Proactive critique of public policy and implementation efforts to preserve and protect archaeological and historical sites and resources. Additional work required of graduate students.

ANT 446 Caribbean Archaeology 3 IR

Double Numbered with: ANT 646

Caribbean archaeology from the region's early prehistory through the historic period. Cultural diversity, indigenous societies, Hispanic and colonial impacts, and the African Diaspora.

PREREQ: ANT 141 OR 145.

ANT 447 Archaeology of North America 3 IR

Crosslisted with: NAT 447; Double Numbered with: ANT 647

Introduction to the regional prehistory of North America north of Mexico, from the late Pleistocene until European contact. Adaptation of prehistoric human populations to their ecosystems. Additional work required of graduate students.

PREREQ: ANT 141, ANT 145.

ANT 450 Undergrad Research Prog 1-6 S R

ANT 452 Anthropology and Public Policy 3 IR

Double Numbered with: ANT 652

Cultural aspects of the development and implementation of public policy. Emphasizing decision making methodologies and ethnographic studies of the consequences of implemented policies. Additional work required of graduate students.

ANT 455 Culture and AIDS 3 IR

Crosslisted with: WGS 455; Double Numbered with: ANT 655

Relationship between AIDS and cultures in which it spreads. Cultural practices and sexuality and social effects of widespread AIDS, including healthcare in Asia, Africa, Latin America, and USA. Additional work required of graduate students.

ANT 456 Representations of Indigenous Peoples in Popular Culture 3 IR

Crosslisted with: NAT 456; Double Numbered with: ANT 656

Contested images used by colonizers and other non-indigenous people to represent Native Americans and other indigenous peoples. How indigenous people represent themselves in a variety of media. Additional work required of graduate students.

ANT 458 Anthropology of Social Change 3 Y

Introduces the basic concepts used by anthropologists to study change. Cultural heterogeneity of people of the Iberian peninsula, used as a means to understand social and cultural change in contemporary Spain and Portugal. Some themes examined include culture contact and acculturation, planned and nondirected change, and role of individual. Offered only in Madrid.

ANT 459 Contemporary Native North American Issues 3 IR

Crosslisted with: NAT 459; Double Numbered with: ANT 659

Contemporary issues including federal Indian policy, population controls, fishing rights, religious freedom, land disputes, gaming, repatriation, environmental colonialism, and Native American artistic response. Additional work required of graduate students.

ANT 461 Museums and Native Americans 3 IR

Crosslisted with: NAT 461; Double Numbered with: ANT 661

The contested relationships among Native North Americans and museums from earliest contact until the present. Topics include: "salvage" ethnography, collecting practices, exhibition, and recent shifts in power. Additional work required of graduate students.

ANT 462 Culture and Reproductive Health and Medicine 3 IR

Crosslisted with: HTW 462, WGS 462; Double Numbered with: ANT 662

Cultural anthropological approaches to cross-cultural variations in reproductive practices (pregnancy, childbirth, infertility, etc.) Impact of globalization, biomedicalization, international development on reproduction and reproductive health. Medical anthropology and gender studies.

ANT 463 Global Health 3 IR

Crosslisted with: HTW 463; Double Numbered with: ANT 663

Global health in anthropological perspective. Examines how culture affects people's experience and response to morbidity and mortality. Considers topics like gender and health, reproductive health, infectious disease, health and inequality and health and war.

ANT 465 Medical Anthropology 3 IR

Double Numbered with: ANT 665

Critical aspects of health care delivery in the United States. Curing in primitive societies. Problems of introducing Western medicine to other cultures. Additional work required of graduate students.

ANT 466 Culture and Sexual Behavior 3 IR

Double Numbered with: ANT 666

Cross-cultural patterns of dating and courtship, sexuality, marriage, fertility, and divorce from biosocial and medical perspectives. Additional work required of graduate students.

ANT 467 Culture and Mental Disorders 3 IR

Double Numbered with: ANT 667

Theories portraying mental disorders as social roles Goffman, Szasz, Laing. Synthesis of social role and biogenetic theories performed and applied cross-culturally. Additional work required of graduate students.

ANT 468 Middle East in Anthropological Perspective 3 IR

Crosslisted with: IRP 468, MES 468; Double Numbered with: ANT 668

Anthropology of the social, cultural, geographical, and political realities of the Middle East. Additional work required of graduate students.

ANT 470 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

ANT 471 Religion and Society in Brazil 3-4 IR

Crosslisted with: REL 471

Role of religion in society; religions of Brazil, including Catholicism, liberation theology, afro-religions. Spring break field stay in Rio de Janeiro; methods of study; preparation of research proposal.

ANT 472 Language, Culture, and Society 3 Y

Crosslisted with: LIN 472, WGS 472; Double Numbered with: ANT 672

Cross-cultural survey of the role of language in culture and society, including cognition and language usage along the dimensions of class, gender, race, ethnicity, and social status.

ANT 474 Culture and Folklore 3 IR
Crosslisted with: WGS 474; Double Numbered with: ANT 674
Ways in which folklore (oral and material traditions, including personal narratives), reflects key cultural ideas such as gender, ethnicity, and history. Analytical methods for examining folk traditions. Additional work required of graduate students.

ANT 475 Culture and Disputing 3 IR
Double Numbered with: ANT 675
Explores modalities of disputing, dispute resolution, and conflict management in cross-cultural perspective. Decision making in meetings and organizations, negotiation, mediation, intercultural negotiation, and third party interventions. Ethnographic materials are drawn from many cultures. Additional work required of graduate students.
PREREQ: ANT 477/677.

ANT 477 Culture and Conflict 3 IR
Double Numbered with: ANT 677
An overview of conflict in cross-cultural perspective. Covers a variety of approaches to using cultural analysis in the study of conflict and reviews case studies of specific conflicts. Additional work required of graduate students.

ANT 478 Language & Gender 3 IR
Crosslisted with: WGS 478; Double Numbered with: ANT 678
The role of language in the construction of gender/sex, using works of linguistic anthropologists, sociolinguists, and feminists. Children's learning of gendered language; the intersection of gender, class, and language; gender and political economy.

ANT 479 Anthropology of Global Transformations 3 IR
Double Numbered with: ANT 679
Impact of global processes, including industrialization, capitalist expansion, transnational migration, environmental change, and international tourism on the daily lives of men and women in Third World contexts. Additional work required of graduate students.

ANT 481 Ethnographic Techniques 3 O
Research methods and techniques in cultural anthropology. Participant observation, interviewing, establishing rapport, recording field data, use of photographic and recording equipment, etc. Also offered regularly abroad.

ANT 482 Life Histories/Narratives 3 IR
Double Numbered with: ANT 682
Evaluation of personal narratives (fieldwork memoirs, reflexive writings), oral histories and testimonials of respondents, a means of personalizing ethnographic discourse, giving more direct voice to respondents, and increasing multivocality. Issues of reflexivity, subjectivity, authority. Additional work required of graduate students.

ANT 483 Social Movement Theory 3 IR
Double Numbered with: ANT 683
Theoretical approaches to analysis of social movements including Marxist and other Utopian traditions of social analysis, rational choice and resource mobilization models, new social movement theory, and Gramscian analysis of power and resistance. Additional work required of graduate students.

ANT 484 Social Movement Research Methods 3 IR
Double Numbered with: ANT 684
A range of research methodologies relevant to the study of social movements. Stimulates critical thinking about these methodologies' ethical implications. Students develop proposals for projects carried out the following semester.

ANT 485 Social Movement Internship 3 IR
Double Numbered with: ANT 685
A hands-on experience of the everyday challenges of social movement organizations, and to involve students in a project useful both to the organization and to the development of improved theory about social movements. Additional work required of graduate students.
PREREQ: ANT 483/683, ANT 484/684.

ANT 490 Independent Study 1-6 S
Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

ANT 494 Underground Railroad 3 SI
Crosslisted with: AAS 434, HST 434; Double Numbered with: ANT 694
Myth and history of the Underground in the context of African American freedom efforts. Emphasis on events, personalities, and sites in upstate New York. Student field research and exploration of archival and Internet resources. Additional work required of graduate students.

ANT 499 Honors Thesis 3-6 S
R

ANT 500 Selected Topics 1-3 SI
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ANT 523 Culture Change in Latin America 3 Y
Crosslisted with: LAS 523
Effects of urbanization, industrialization, population increases, international politics, and modernization upon primitive and peasant populations of Latin America.

ANT 553 Women and Social Change 3 E
Crosslisted with: WGS 553
Function of changes in women's roles in sociocultural urbanization, revolution, and modernization. Women in Third World countries compared to women in industrialized countries.

ANT 571 Topics in Sociolinguistics 3 SI
Crosslisted with: LIN 571, SOC 571
Functions of language in society. Geographical, socioeconomic, and male-female differentiation. Functions of various types of speech events. Requirements include a research project. R1, 6 credits maximum

ANT 574 Anthropology and Physical Design 3 E
Interrelationship of social and spatial organization in traditional and modern societies. Nonverbal communication: use of space, territoriality, and impact of physical design on human behavior.

Applied Statistics

STT 101 Introduction to Statistics 3
Provides a working knowledge of statistics: descriptive statistics, sampling distributions, data analysis using software. Students cannot receive credit after having received a C or better in MAT 121 or MAT 221.

Arabic

ARB 101 Arabic I 4 Y
Proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Arabic.

ARB 102 Arabic II 4 Y
Continuing proficiency-based course, which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts. Activities are conducted in Arabic.
PREREQ: ARB 101.

ARB 201 Arabic III 4 Y
Continuing proficiency-based course, which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Arabic.
PREREQ: ARB 102.

ARB 202 Arabic IV 4 Y
Continuing proficiency-based course, which further refines and expands linguistic skills in culturally authentic contexts. Incorporates reading, discussing, and analyzing texts as a basis for the expression and interpretation of meaning. Conducted in Arabic.
PREREQ: ARB 201.

ARB 301 Arabic V 3 Y
Continuing proficiency-based Arabic language course which focuses on more advanced levels of proficiency in reading, speaking, writing, and listening.
PREREQ: ARB 202.

ARB 302 Arabic VI 3 Y
Continuing proficiency-based Arabic language course which focuses on more advanced levels of proficiency in reading, speaking, writing, and listening.
PREREQ: ARB 301.

Asian/Asian American Studies

AAA 101 **Introduction to Asian/Asian-American Studies** 3 IR

Examines how cross border transactions in Asia and between Asia and the United States and Canada have shaped ideologies and politics, markets here and abroad, marriage, labor, personal, social, political and cultural identity.

Astronomy

AST 101 **Our Corner of the Universe** 4 Y

Historical and modern understanding of the nature of the solar system. Includes laboratory with observations. May be taken with AST 104 in either order or independently.

AST 104 **Stars, Galaxies & Universe** 4 Y

Historical and modern understanding of the nature of the universe beyond the solar system. Includes laboratory with observations. May be taken with AST 101 in either order, or independently.

Bengali

BNG 101 **Bengali I** 4

Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Bengali.

BNG 102 **Bengali II** 4

Continuing proficiency-based course which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts. Activities are conducted in Bengali.
PREREQ: BNG 101.

BNG 201 **Bengali III** 4

Continuing proficiency-based course which further refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Bengali.
PREREQ: BNG 102.

BNG 202 **Bengali IV** 4

Continuing proficiency-based course which further refines and expands previously acquired linguistic skills in culturally authentic contexts. Incorporates reading, discussing and analyzing texts as a basis for the expression and interpretation of meaning. Activities are conducted in Bengali.

Biochemistry

BCM 430 **Journal Club in Molecular Pharmacology & Structural Biology** 1 Y

Double Numbered with: BCM 630
Critical evaluation of recent journal articles that focus on molecular pharmacology and/or structural biology. Students make at least one presentation per semester and participate in weekly discussion. Additional work required of graduate students. R1, 2 credits maximum

BCM 460 **Research in Biochemistry** 1-3 S
Research carried out under the supervision of a faculty member. R3, 12 credits maximum

BCM 477 **Preparation and Analysis of Proteins and Nucleic Acids** 3 Y

Crosslisted with: CHE 477; Double Numbered with: BCM 677

Experimental methods for biologically synthesizing and chemically purifying macromolecules in order to analyze their structure and function, including: polymerase chain reaction; site-directed mutagenesis; Protein expression and purification; nucleic acid and protein electrophoresis. Additional work required of graduate students.
PREREQ: CHE 107 OR 129, CHE 474 OR BIO 326. COREQ: BIO 575.

BCM 484 **Biomolecular Modeling** 3 O

Double Numbered with: BCM 684
Experience in biomolecular modeling of proteins, nucleic acids, and drug candidates as practiced in biochemical research and technology. Connections with structural and physical principles will be emphasized. Additional work required of graduate students.
PREREQ: CHE 474.

Biology

BIO 105 **Technology Inspired by Nature-Learning from the Natural World** 3 Y

Investigations into how human technology has been and can be inspired by nature. Research process; production of novel adhesives, building materials, fabrics; solar power, biofuels, aerodynamics, computer design, artificial intelligence, and robotics.

BIO 115 **Ecological Problems and Society** 3 IR

Current and anticipated ecological problems of societal importance and the basic scientific principles required for informed understanding and assessment of these issues by the non-scientist.

BIO 121 **General Biology I** 4 Y

First course in a survey of biological concepts ranging from the molecular level to global ecology. Units include the nature of science, life chemistry, cell structure and function, photosynthesis and respiration, genetics, and evolution.

BIO 123 **General Biology II** 3 Y

Second course in a survey of major biological concepts ranging from the molecular level to global ecology. Units include biodiversity, plant structure and function, human and comparative animal anatomy and function, ecology, and evolution.
PREREQ: BIO 121.

BIO 124 **General Biology II Laboratory** 1 Y

Laboratory course associated with BIO 123. Includes inquiry-based exploration and practical application of concepts discussed in BIO 123. One laboratory session per week. Dissection required.
COREQ: BIO 123.

BIO 211 **Introduction to Neuroscience** 3 Y

Foundations of neurobiology beginning with cellular neurobiology, moving on to integrative systems and ending with higher brain functions. Emphasizes understanding of nervous system operation. Lectures, discussion and demonstrations.

BIO 216 **Anatomy & Physiology I** 4 Y

Lecture and laboratory course relating form and function. Structure and function of tissues, bones, joints, muscle, nervous system, and special senses. Biology majors may not receive credit toward the major.
PREREQ: BIO 121, 123, 124.

BIO 217 **Anatomy and Physiology II** 4 Y

Lecture and laboratory course, continuation of BIO 216, relating form and function. Structure and function of urinary, digestive, endocrine, reproductive, and cardiovascular systems. Biology majors may not receive credit toward the major.
PREREQ: BIO 121, 123, 124.

BIO 220 **Biology Abroad** 1-6 SI

Examination of specific biological problems offered in, or with a specific focus on, a particular international setting. Combination of lectures and appropriate laboratory and field exercises. R

BIO 305 **Integrative Biology Laboratory** 3 Y

Provides students with early laboratory experience, presenting a quantitative, integrated view of subcellular, organismal, and ecosystem/environmental perspectives on biology.
PREREQ: BIO 121.

BIO 307 **South African Ecosystems and Diversity** OTS 4 IR

Taught in South Africa through OTS program. Field and classroom instruction, integrated analysis of diversity of South Africa's ecosystems based on sources in geology, climatology, ecosystem ecology, co-evolution of plants and animals; roles of humans.

BIO 311 **Fundamentals of Tropical Biology-Costa Rica** OTS 4 IR

Taught in Costa Rica through OTS program. Integrates classroom and field instruction; fundamental principle of tropical biology; the natural history of important plants, animals; major conceptual problems guiding basic ecological research in tropical habitats.

BIO 312 **Marine Ecology of Spain** 3 SI

Offered only in Madrid. Marine ecosystems and their components and how they behave alone and in interaction. Observe and analyze conservation issues such as problems resulting from excessive use of resources, including renewable and non-renewable natural resources and the deterioration and loss of both.
PREREQ: PED 221.

BIO 315 **Everyday Implications of Biological Research** 3 Y

Topics include genetically modified organisms, environmental and energy-source concerns, biomedical advanced leading to enrichment or elongation of lives, or to medico-social/ethical controversies.

BIO 326 Genetics & Cell Biology I 3 Y
Principles of inheritance, structure and synthesis of nucleic acids and proteins, basic enzymology, microbial genetics, recombinant DNA technology and introduction to genomics.
PREREQ: BIO 121, CHE 106.

BIO 327 Genetics & Cell Biology II 3 Y
Cell structure, molecular biology of eukaryotic cells, cytoskeletal organization and function, cell division cycle, membrane structure and function, cell-cell interactions, cell differentiation and regulation.
PREREQ: BIO 121, CHE 106.

BIO 345 Ecology and Evolution 3 Y
Survey of modern topics in ecology and evolutionary biology. Evolution, phylogenetics, animal behavior, population ecology, community ecology and ecosystems
PREREQ: BIO 121, 123.

BIO 355 General Physiology 3 Y
Physiology of systems of higher animals and plants, including circulation, regulation of body fluids, nervous system, muscle, sensory systems, and photosynthesis.
PREREQ: BIO 121, CHE 106, 107.

BIO 360 Biology Laboratory Assistant I S
Students who have completed BIO 425, 435, 445 or 455 may receive one credit hour for assisting in the teaching of these laboratories. This opportunity is especially appropriate for students considering teaching careers. Invitation of instructor. R1, 2 credits maximum

BIO 400 Selected Topics 1-3 SI
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. * R

BIO 405 Introduction to Field Biology Laboratory 4 Y
Scientific methods and design. Intensive field research conducted during spring break at the Archbold Biological Station in Florida. Design, implement, analyze own research projects. Travel to ecosystems discussed in lecture.
PREREQ: BIO 121.

BIO 406 Field Research in Savanna Ecology-OTS 4 SI
Taught in South Africa through OTS program. Research design, field methods, basic data analysis in context of South African ecosystems.

BIO 407 Advanced Neuroscience 3 Y
Double Numbered with: BIO 607
Detailed analysis of the anatomy, physiology, and chemistry of the nervous system and behaviors that it mediates. Topics include: neurons and electrochemical properties of neurons, sensory and motor systems, homeostasis, sleep, consciousness, learning, and memory.
PREREQ: BIO 211 OR PSY 223.

BIO 409 General Microbiology 4 Y
Micro-organisms and life processes. Microbial world. Microorganisms and human disease. Microorganisms and the environment. Lecture and laboratory.
PREREQ: BIO 326, 327, CHE 325.

BIO 412 Research Methods in Tropical Biology-OTS 4 SI
Taught in Costa Rica through OTS program. Research design, field methods, basic data analysis in a tropic context. Hypothesis testing and statistical analysis. Design, implement, and analyze own field projects.

BIO 415 Conservation Biology 3 Y
Double Numbered with: BIO 615
Considered from the standpoint of modern molecular, genetic, and population biology. Biodiversity, minimum viable populations, reserve design, genetic variation, applications of recombinant DNA technology, ex situ, care and ecosystem reconstruction. Additional work required of graduate students.

BIO 417 Animal Behavior and Evolutionary Biology Laboratory 3 Y
Focuses on understanding the process of natural selection, with an emphasis on the evolution of adaptive animal behavior. Planned lab and field exercises, independent research projects. Suitable for junior and senior biology majors.
PREREQ: BIO 345.

BIO 419 Junior and Senior Thesis Seminar I S
Discussion of research activities of major interest to the participants. Open only to students admitted to the upper-division biology honors program. May be taken for credit up to four times. R3, 4 credits maximum

BIO 421 Seminar in Biology 3 S
Junior/ senior level elective provides students the opportunity to read and analyze one area of the primary biological literature in depth. Analysis will take the form of papers, seminar presentations, and discussion of material presented during seminars.

BIO 422 Bioinformatics for Life Scientists 3 Y
Bioinformatics and how to apply it to biological research. As a lab course emphasis will be on the hands-on use of bioinformatics tools to solve relevant biological problems.
PREREQ: BIO 326.

BIO 424 Comparative Vertebrate Biology 4 Y
Phylogenetic relationships and adaptations of vertebrates based upon comparative embryology, anatomy, histology, and physiology. Laboratory includes microscopic work, dissections, and interactive computer-video exercises.
PREREQ: BIO 327, 345.

BIO 425 Cell and Developmental Biology Laboratory 3 Y
Survey of current methods employed in cell and developmental biology, including microscopy and imaging techniques, spatial analysis of gene expression, protein expression and localization, cell fractionation, and immunocytochemistry. Review general laboratory methods, data analysis, reporting.
PREREQ: BIO 326, 327, 503 OR 462.

BIO 428 Capstone Seminar in Environmental Science 3 Y
Seminar for students following the environmental science curriculum. Students will work together to critically evaluate, and propose solutions to, current environmental problems using a combination of reading, class discussion, written analyses, and oral presentations.

BIO 431 Population Genetics 3 SI
Double Numbered with: BIO 631
Models of population growth, Hardy-Weinburg equilibrium, X-linkage and two loci, subdivision, inbreeding and finite populations, quantitative characters, selection, migration, mutation, the fundamental theorem, stochastic processes, and requisite mathematics. Computer programming is part of the laboratory requirement. Additional work required of graduate students. Prereq: BIO 345 and MAT 285 or 295; or permission of instructor.
PREREQ: BIO 345, MAT 285 OR 295.

BIO 432 Environmental Microbiology Laboratory 3 Y
Microorganisms found in natural soil and water environments will be isolated and characterized. A focus on how microbiological ecosystems respond to changes in visible light, ultraviolet light and temperature.

BIO 435 Genetics Laboratory 3 Y
Exercises in classical genetic analysis using eukaryotic systems, and microbial genetics using bacteria and fungi. Cytogenetics. Prereq: PREREQ: BIO 326, CHE 106, 116.

BIO 447 Basic Immunology 3 Y
Natural and adaptive humoral and cellular immunity. Immunoglobulin structure, generation of diversity, isotopes. Antigen recognition and processing. Complement pathways. Immune quantitation. Leucocyte differentiation. Interleukins. T-cell receptor structures and generation of diversity. Major histocompatibility complex proteins.
PREREQ: BIO 326, 327.

BIO 448 Evolutionary Medicine 3 Y
Application of evolutionary principles to prevention and treatment of human disease. Evolution of antibiotic resistance, epidemiology, virulence, population genetics, germ theory of disease, aging, human evolution. Lectures and discussion.
PREREQ: BIO 121, 326.

BIO 449 Evolutionary Developmental Biology 3 Y

Double Numbered with: BIO 649

How does development produce wings, fins, hands and heads? What goes wrong in development when disease occurs? Explore basic principles of animal development and the evolution of developmental diversity. Additional work required of graduate students
PREREQ: BIO 326.

BIO 451 Ecology 3 E

Double Numbered with: BIO 651

Integrated approach to animals and plants in their natural environments; evolutionary ecology and the ecology of populations, communities, and ecosystems. Aspects of applied ecology: pollution and human population growth. Additional work required of graduate students.
PREREQ: BIO 345.

BIO 453 Ecology Laboratory 2 E

Combines field trips to natural locations in upstate New York with laboratory studies to show how organisms interact with each other and their natural surroundings. Animal and plant ecology.
COREQ: BIO 451.

BIO 454 Evolution 3 Y

Origins and theory; genetics and mechanisms; speciation and phylogeny; rates and trends, including molecular and macro evolution.
PREREQ: BIO 345.

BIO 455 Physiology Laboratory 3 Y

Experiments on function of cells: muscle contraction, action potential, synaptic transmission, active transport, hormone receptors, intermediary metabolism. Independent research project.
PREREQ: BIO 355 OR 327, CHE 106, 116.

BIO 460 Research in Biology 1-3 S

Laboratory or field research under direct supervision of biology department faculty. Projects incorporate use of the scientific method, experimentation, data analysis, presentation and interpretation, and the responsibilities of scientific integrity. R

BIO 462 Molecular Genetics 3 Y

Double Numbered with: BIO 662

Applications of recombinant DNA methodology to the study of gene function. Mechanism regulating protein function and gene expression. Overview of the molecular causes of spontaneous and inherited diseases. Introduction to genomic and proteomic methods. Additional work required of graduate students.
PREREQ: BIO 326, 327.

BIO 463 Molecular Biotechnology 4 Y

Double Numbered with: BIO 663

Introduction to the molecular and genetic principles and processes involved in biotechnology. Labs will cover many of the methods routinely used in biotechnology labs. Additional work required of graduate students.
PREREQ: BIO 326, 327.

BIO 464 Applied Biotechnology 4 Y

Double Numbered with: BIO 664

Introduction to the scientific background necessary for applying tools of biotechnology for improvement of animal and human health, agriculture and environment. Labs will cover methods used in biotech industry and academia. Additional work required of graduate students.
PREREQ: BIO 326, 327.

BIO 465 Molecular Biology Laboratory 3 Y

Double Numbered with: BIO 665

Basic experimental techniques: isolation of DNA, restriction endonuclease cleavage of DNA, cloning of DNA, isolation of clones from DNA libraries, in vitro mutagenesis and other techniques to manipulate nucleic acids. Additional work required of graduate students.
PREREQ: BIO 326, 327.

BIO 475 Biochemistry Laboratory 4 Y

Double Numbered with: BIO 675

Experiments on amino acids, proteins, enzymes, fatty acids and nucleic acids, illustrating modern biochemical techniques applied to the chemistry of living cells. Titrations; electrophoresis; gel filtration; kinetics; spectrophotometric assays; cellular fractionation and analysis. Additional work required of graduate students.
PREREQ: BIO 326, 327; COREQ: BIO 575.

BIO 495 Distinction Thesis in Biology 1-3 S

For students preparing a thesis in partial fulfillment of the requirements for the Distinction in Biology Program. It normally will be taken by Distinction students in the semester prior to graduation.

BIO 499 Biology Thesis 1-6 S

Honors Program Students

BIO 501 Biology of Cancer 3 Y

Classifications and model systems in cancer. Oncogenes; viral and chemical oncogenesis. Growth control, genetic and epigenetic changes, progression, invasion, metastasis, and tumor immunobiology. Cancer biochemistry, host-tumor interactions, chemotherapy, immunotherapy, and host-response modification.
PREREQ: BIO 326, 327.

BIO 503 Developmental Biology 3 Y

Regulation of form and differentiation in eucaryotic organisms. Control of development at the molecular, cellular, and organismal levels. Experimental approaches to provide an understanding of developmental processes.
PREREQ: BIO 326; COREQ: BIO 327.

BIO 544 Teaching of College Science 3 Y

Crosslisted with: SCI 544

Current approaches. Analysis of teaching methods, such as lectures, discussions, evaluation, use of institutional technology, individualized instruction. Supervised teaching experiences to aid self-improvement as a college science teacher.

BIO 565 Cellular Physiology 3 Y

A lecture course on basic problems of cell function, including energetics, membrane transport, contractility, and properties of excitable membranes.
PREREQ: BIO 326, 327.

BIO 575 Biochemistry I 3 Y

Structure and function of nucleic acids and proteins. Protein isolation and characterization. Enzyme kinetics, mechanisms, and regulation. Principles and application of thermodynamic concepts to metabolism. DNA replication, transcription, and translation.
PREREQ: CHE 275, 325.

BIO 576 Biochemistry II 3 Y

Continuation of Biochemistry I. Mechanisms, integration, and regulation of intermediary, autotrophic, nitrogen, and energy metabolism. Structure, function, and metabolism of carbohydrates, lipids, and proteins. Biogenesis and function of subcellular organelles.
PREREQ: BIO 575.

Chemistry

CHE 103 Chemistry in the Modern World 3 Y

Basic concepts and principles of chemistry. Applications of chemistry to problems in the modern world. Will not satisfy prerequisite requirements for advanced courses in chemistry. (First in a sequence, to be followed by CHE 113.)

CHE 106 General Chemistry Lecture 3 Y

Fundamental principles and laws underlying chemical action, states of matter, atomic and molecular structure, chemical bonding, stoichiometry, properties of solutions, chemical equilibrium, and introductory thermodynamics. Descriptive chemistry in relation to theoretical principles. Credit is given for CHE 106,116 or CHE 109,119, but not both.

CHE 107 General Chemistry Laboratory 1 Y

Experimental study of basic principles and techniques of chemistry. States of matter, determination of formulas and molecular weights, simple volumetric and gravimetric analysis, heats of reaction. Equilibrium, rates of reactions, and qualitative analysis. Credit is given for CHE 107,117 or CHE 129,139, but not both.
COREQ: CHE 106 OR 109.

CHE 109 General Chemistry (Honors and Majors) 3 Y

General chemistry for students in the Honors Program, chemistry majors, and others with strong science interests. Quantitative, physical, and inorganic chemistry; applications in current research. Credit is given for CHE 106,116 or CHE 109,119, but not both.

CHE 113 Forensic Science 4 Y

Introduction to forensic science with focus upon the application of scientific methods and techniques to criminal justice and law. Methods specifically relevant to crime detection and analysis will be presented. Laboratory included.

CHE 116 General Chemistry Lecture 3 Y
Fundamental principles and laws underlying chemical action, states of matter, atomic and molecular structure, chemical bonding, stoichiometry, properties of solutions, chemical equilibrium, and introductory thermodynamics. Descriptive chemistry in relation to theoretical principles. Credit is given for CHE 106,116 or CHE 109,119, but not both.
PREREQ: CHE 106 OR 109.

CHE 117 General Chemistry Laboratory 1 Y
Experimental study of basic principles and techniques of chemistry. States of matter, determination of formulas and molecular weights, simple volumetric and gravimetric analysis, heats of reaction. Equilibrium, rates of reactions, and qualitative analysis. Credit is given for CHE 107,117 or CHE 129,139, but not both.
PREREQ: CHE 107 OR 129; COREQ: CHE 116 OR 119.

CHE 119 General Chemistry Honors & Majors 3 Y
General chemistry for students in the Honors Program, chemistry majors, and others with strong science interests. Quantitative, physical, and inorganic chemistry; applications in current research. Credit is given for CHE 106,116 or CHE 109,119, but not both.
PREREQ: CHE 106 OR 109.

CHE 129 General Chemistry Laboratory (Honors and Majors) 1 Y
Introduction to chemical laboratory techniques. Preparation for individual research. Applications of modern chemical apparatus and experiments relevant to environmental chemistry. Credit is given for CHE 107, 117 or CHE 129,139, but not both.
COREQ: CHE 106 OR 109.

CHE 139 General Chemistry Laboratory-Honors and Majors 1 Y
Introduction to chemical laboratory techniques. Preparation for individual research. Applications of modern chemical apparatus and experiments relevant to environmental chemistry. Credit is given for CHE 107, 117 or CHE 129,139, but not both.
PREREQ: CHE 107 OR 129; COREQ: CHE 116 OR 119.

CHE 275 Organic Chemistry Lecture 3 Y
Principle types of organic compounds (nomenclature, reactions, preparation, mechanisms).
PREREQ: CHE 116 OR 119.

CHE 276 Organic Chemistry Laboratory 2 Y
Laboratory to accompany CHE 275. Experiments illustrate principles of organic reactions and structure discussed in lecture. Course must be taken concurrently with CHE 275.
PREREQ: CHE 117 OR 139; COREQ: CHE 275.

CHE 290 Independent Study 1-6 S
In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

CHE 325 Organic Chemistry Lecture 3 Y
Principle types of organic compounds (nomenclature, reactions, preparation, mechanisms).
PREREQ: CHE 275.

CHE 326 Organic Chemistry Laboratory II 2 Y
Laboratory to accompany CHE 275 and 285. Experiments illustrate principles of organic reactions and structure discussed in lecture. Courses must be taken concurrently with CHE 275 and 285 unless permission is given by the instructor.
PREREQ: CHE 276.

CHE 335 Chemical and Biochemical Analysis with Laboratory 4 Y
Lecture and laboratory on the theory of quantitative analysis and instrumental techniques and their application to the investigation of chemical and biochemical problems.
PREREQ: CHE 116 OR 119; CHE 117 OR 139.

CHE 346 Physical Chemistry 3 Y
Properties of gases, liquids, and solids. Elementary thermodynamics and chemical applications. Chemical and phase equilibrium. Laws of solutions.
PREREQ: CHE 116 OR 119; MAT 286 OR 296; COREQ: PHY 212.

CHE 347 Physical-Analytical Chem Lab 2 Y
Foundation of experimental techniques in physical and analytical chemistry. Introduction to instrument design, simple electronics, and error analysis. Construction of a pH meter, computer simulation of Maxwell distribution, and additional experiments focusing on basic concepts.
COREQ: CHE 346.

CHE 356 Physical Chemistry 3 Y
Electrochemistry. Introduction to quantum mechanics, molecular structure spectra. Basic statistical mechanics. Chemical kinetics and structure of condensed phases.
PREREQ: CHE 346.

CHE 357 Physical Chemistry Laboratory 2 Y
Reinforcement of basic principles taught in CHE 347 by completion of well-selected, modern physical chemistry experiments.
PREREQ: CHE 347; COREQ: CHE 356.

CHE 400 Selected Topics 1-3 IR
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

CHE 411 Inorganic Chemistry 3 Y
Double Numbered with: CHE 611
Descriptive and structural inorganic chemistry and underlying principles.

CHE 412 Metals in Medicine 3 Y
Double Numbered with: CHE 612
Bonding, stereochemistry, and properties of metallo-drugs and diagnostic agents. Topics include platinum compounds for treating cancer, gadolinium and technetium in biomedical imaging, and porphyrins in photodynamic therapy. Additional work required of graduate students.
PREREQ: CHE 356, 474.

CHE 422 Inorganic Laboratory Technique 1 Y
Double Numbered with: CHE 622
Basic experimental techniques used in inorganic chemistry.
PREREQ: CHE 411.

CHE 427 Intermediate Organic Chemistry 3 Y
Double Numbered with: CHE 627
Stereochemistry, photochemistry, natural products, and chemistry of reactive intermediate and retrosynthetic analysis and design. For Chemistry majors interested in organic specialization and graduate students wishing to strengthen fundamental concepts.
PREREQ: CHE 325, CHE 326.

CHE 436 Advanced Physical Chemistry 3 Y
Double Numbered with: CHE 636
Applications of thermodynamics and quantum mechanics to chemical bonding, molecular properties, chemical kinetics, structure of matter, spectroscopy.
PREREQ: CHE 356.

CHE 450 Introduction to Chemical Research 1-4 S
Research problem carried out under the supervision of a faculty member. R1, 8 credits maximum

CHE 467 Introduction to Physical Chemistry Research Laboratory 3 Y
Research on well-focused projects which will be supervised by physical chemistry faculty.
PREREQ: CHE 357.

CHE 470 Experience Credit 1-6 S
Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

CHE 474 Structural and Physical Biochemistry 3 Y
Double Numbered with: CHE 674
Thermodynamics, kinetics, and bonding associated with biological molecules. The course also utilizes computerbased molecular modeling tools for analyzing the structures of drugs, proteins, and nucleic acids. Additional work required of graduate students.
PREREQ: CHE 275, 325.

CHE 477 Preparation and Analysis of Proteins and Nucleic Acids 3 Y

Crosslisted with: BCM 477; Double Numbered with: CHE 677

Experimental methods for biologically synthesizing and chemically purifying macromolecules in order to analyze their structure and function, including: polymerase chain reaction; site-directed mutagenesis; Protein expression and purification; nucleic acid and protein electrophoresis. Additional work required of graduate students. PREREQ: CHE 107 OR 129; CHE 474 OR BIO 326; COREQ: BIO 575.

CHE 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

CHE 499 Honors in Chemistry 1-6 S

CHE 546 Molecular Spectroscopy and Structure 1-9 Y

For the nonspecialist. Three topics each semester, chosen from the list below. Students may register for one, two, or three modules. 546M Atomic Spectroscopy and Angular Momentum 1; 546M Laser Chemistry and Spectroscopy 1; 546M Symmetry and Group Theory 1; 546M Electronic Spectroscopy 1; 546M Nuclear Magnetic Resonance Spectroscopy 1; 546M Vibrational Spectroscopy 1; 546M Laser Applications of Molecular Spectroscopy 1
PREREQ: CHE 356. R5, 12 credits maximum

CHE 575 Organic Spectroscopy 3 Y

Use of mass spectrometry and infrared, ultraviolet-visible, and nuclear magnetic resonance spectroscopy.
PREREQ: CHE 325, CHE 326.

Chinese

CHI 101 Chinese I 4 Y

Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Chinese. No prior experience or admission by placement testing.

CHI 102 Chinese II 4 Y

Continuing proficiency-based course which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts. Activities are conducted in Chinese.
PREREQ: CHI 101.

CHI 201 Chinese III 4 Y

Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Chinese.
PREREQ: CHI 102.

CHI 202 Chinese IV 4 Y

Continuing proficiency-based course which further refines and expands linguistic skills in culturally authentic contexts. Incorporates reading, discussing, and analyzing texts as a bases for the expression and interpretation of meaning. Conducted in Chinese.
PREREQ: CHI 201.

CHI 301 Chinese V 3 Y

Fifth in the sequence of continuing proficiency-based courses that refine and expand previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Chinese.
PREREQ: CHI 202.

CHI 302 Chinese VI 3 Y

Sixth in the sequence of continuing proficiency-based courses that refine and expand previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Chinese.

Classics

CLA 421 Classical Mythology 3

Crosslisted with: LIT 421, REL 421
Myths and rituals of Greek mythology and religion. Ancient poets/playwrights and important mythological themes found in later Western religious/artistic traditions. Offered only in Florence.

Cognitive Science

COG 301 Introduction to Cognitive Science 3 Y

Concepts and methods in the study and explanation of cognition. Knowledge that underlies such abilities as vision, language use, and problem solving. How it is represented and used. Comparison of methods in different disciplines studying cognition.

COG 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

College Of Arts And Sciences

CAS 101 First Year Forum 1 S

An introduction to the University in small discussion sections. Required of all first semester Arts and Sciences students. Diverse topics. Relevant reading and writing with discussions led by College of Arts and Sciences faculty members.

CAS 102 Summer Start Seminar 1 Y

Critical thinking, leadership, study, and time management skills; high school to college transition issues; academic policies and university resources.

CAS 107 Architectural Design I 6 IR

Crosslisted with: ARC 107
Architectural principles through analysis, abstract exercises, and building-design problems. Use of graphic conventions and the role of drawing to convey architectural ideas.

CAS 108 Architectural Design II 6 IR

Crosslisted with: ARC 108
Continuation of basic design principles. Design problems dealing with program, context, and construction.

CAS 133 Introduction to the History of Architecture I 3 IR

Crosslisted with: ARC 133
Themes, concepts, and problems in architectural history from ancient Egypt to 1500. Required for architecture majors.

CAS 134 Introduction to the History of Architecture II 3 IR

Crosslisted with: ARC 134
Themes, concepts, and problems in architectural history from 1500 to the present. Required for architecture majors.

CAS 196 Introduction to Computer Programming:C 3 IR

Crosslisted with: CPS 196
Basic computing concepts, data representation, problem definition, algorithms and flow charts, the C language, programming exercises. Students may not receive credit for both CPS 196 and ECS 102.

CAS 201 Transfer Forum 1 S

Introduction to the University in small discussion sections for students transferring into Syracuse University in Arts and Sciences. Diverse topics. Relevant reading, writing with discussions

CAS 311 Living in a Global Environment 3 Y

Analysis of practical and theoretical components in living and interacting with people of different countries and cultures.

CAS 325 Presentational Speaking 3 S

Crosslisted with: CRS 325
Conceptual and practical dimensions of formal presentations in organizational settings. Analysis, adaptation, strategic arrangement and development of ideas, verbal and nonverbal presentational skills.

CAS 411 Living in a Global Environment 1 Y

Double Numbered with: CAS 611
Analysis of practical and theoretical components in living and interacting with people of different countries and cultures. Additional work required of graduate students.

Communication Sciences And Disorders

CSD 212 Introduction to Communication Sciences and Disorders 3 S

Overview of biological, psychological, and social bases of human communication. Nature of deviations from/disruptions to normal speech, language, hearing. Basic principles of diagnosis, intervention, prevention. For human service providers, helping professionals, school administrators. Cannot receive credit for both CSD 212 and CSD 303.

CSD 303 Communication in the Classroom 3 Y

Survey of development of oral communication and disorders that may interfere with effective communication and affect school performance. Emphasis upon collaboration between teachers and speech/language pathologists in describing and facilitating children's communication.

CSD 315 Anatomy and Physiology of the Speech and Hearing Mechanisms 3 Y

Double Numbered with: CSD 615
Structure and function of the skeletal, neurological, and muscular systems involved in breathing, phonation, resonance, articulation, and hearing. Additional work is required of graduate students.
PREREQ: CSD 212.

CSD 316 Introduction to Applied Phonetics 3 Y

Double Numbered with: CSD 616
Anatomical structures and processes involved in speech production. Phonetic transcription of speech of adults, normally developing children, and children with speech disorders. Acoustic phonetics, phonology, and dialects.

CSD 325 Fundamentals of Hearing Sciences 3 Y

Introductory anatomy, physiology, and function of the normal auditory system. Introduction to the physics of sound and psychoacoustic principles.
PREREQ: CSD 212.

CSD 345 Fundamentals of Speech Science 3 Y

Acoustic-productive and perceptual aspects of speech. Normal processes of speech production, the speech signal produced and its perception.
PREREQ: CSD 315 OR CSD 316.

CSD 409 Cognitive Neuroscience of Speech and Language 3 Y

Double Numbered with: CSD 609
Neuroanatomical and neurophysiological aspects of speech and language. Role of central and peripheral nervous system in normal speech and language activities. Additional work required of graduate students.

CSD 422 Development of Speech and Language 3 Y

Double Numbered with: CSD 622
Theories and research on children's acquisition of communication, syntax, semantics, pragmatics, morphology, and phonology. Relationships between oral and written language skills in comprehension and production processing; individual differences; cognitive, social, biological, familial, and cultural influences. Additional work required of graduate students.

CSD 425 Stuttering 3 Y

Double Numbered with: CSD 625
Theories of onset, development, and maintenance of disfluent speech; differentiation of normal vs. stuttered disfluencies; approaches to assessment and intervention across age range, settings, and severity levels; familial considerations, counseling, and environmental modifications; individualizing intervention. Additional work required of graduate students.

CSD 427 Articulation Disorders 3 Y

Double Numbered with: CSD 627
Overview of normal articulation and development. Characteristics and description of articulation disorders. Incidence, etiology, related factors. Differences versus disorders. Principles of assessment, types of diagnostic instruments. Elements involved in therapy, various approaches to remediation. Additional work required of graduate students.
PREREQ: CSD 316.

CSD 429 Basic Clinical Audiology 3 Y

Double Numbered with: CSD 629
Fundamentals of psychophysics of audition, anatomy, and physiology of the auditory mechanism. Disorders of hearing. Pure tone and speech audiometry. Differential diagnosis. Special procedures for children. Public school audiometry. Auditory rehabilitation. Additional work required of graduate students.

CSD 436 Cultural and Linguistic Issues in Communication Sciences and Disorders 3 Y

Double Numbered with: CSD 636
Communication Sciences and Disorders 3
Discussion of linguistic and cultural variation and comparisons of language acquisition and child socialization across cultures. The assessment and treatment of communication disorders in individuals from culturally and linguistically diverse groups. Additional work required of graduate students.

CSD 439 Technology and Rehabilitation for Hearing Loss 3 O

Double Numbered with: CSD 639
Cochlear implants, hearing aids and other assistive devices and technologies used for intervention in adults and children with hearing loss. Approaches to aural rehabilitation. Additional work required of graduate students.
PREREQ: CSD 325, CSD 429/629.

CSD 446 Augmentative and Alternative Communication Systems 3 SS

Double Numbered with: CSD 646
Philosophical, theoretical, and practical issues in enhancing communication for individuals with severe disabilities. Assistive technologies, identification and evaluation of systems to meet needs of children and adults. Teaching system use in family, school, community settings. Additional work required of graduate students.

CSD 449 Early Assessment and Intervention with Hearing-Impaired Children 3 Y

Double Numbered with: CSD 649
Development of auditory system; review of diagnosis of childhood hearing impairment; counseling parents of hearing-impaired children; language development of the hearing-impaired; amplification and cochlear implants. Additional work required of graduate students. Additional work required of graduate students.
PREREQ: CSD 429.

CSD 450 Clinical/Classroom Practicum I / S

Supervised practicum in clinic, hospital, early intervention, or school setting. Includes planning, staffing, implementation, modification, and outcomes assessment of evaluation and intervention procedures with clients and their families; professional issues addressed in regular seminar meetings. Permission of instructor. R14, 15 credits maximum

CSD 451 Clinical Methods in Speech-Language Pathology 3 Y

Double Numbered with: CSD 651
Principles of professional practice in home, clinic, hospital, and school settings; assessment, remediation, and treatment efficacy; learning processor and motivation; data analysis; behavioral management; multicultural issues; counseling; professional oral and written communication; ethics; professional organizations. Must be matriculated in communication sciences and disorders. Additional work required of graduate students.

CSD 477 Speech-Language Pathology in School Settings 3 Y

Double Numbered with: CSD 677
Historical, legislative, administrative aspects of speech-language pathology school programming. Services delivery models; classroom management; collaborative assessment; and teaching, adapting, and implementing IEPs; social, cultural, linguistic, family, and community factors; rights and responsibilities in programming. Additional work required of graduate students.
PREREQ: CSD 451.

Dutch

DUT 100 Selected Topics I-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester.. R

Earth Sciences

EAR 101 Dynamic Earth 4 S

Chemical, physical, and biological processes and principles affecting the history and development of the earth. Lectures, laboratory, and field trips. Students may not receive credit for both EAR 101 and 105.

EAR 102 History of Earth and Life 3 Y

Physical and biological history of the earth. Lectures, laboratory, field trip.
PREREQ: EAR 101.

EAR 104 Introductory Geology Lab 1 Y
Laboratory course designed for students who took EAR 105 but who need credit for a laboratory course. Equivalent to the lab portion of EAR 101; credit will not be given for both EAR 101 and 104.
COREQ: EAR 105.

EAR 105 Earth Science 3 S
Scientific study of our planet, its history, and the processes that shape it and affect humans. Emphasis includes tectonics, continental surfaces, and climate. Lecture and recitation, no laboratory; no prerequisite. Intended for non-majors. Students may receive credit for either EAR 101 or 105 but not both.

EAR 106 Environmental Geology 3 Y
Geologic systems as affected by human manipulation of and intrusion into the geologic environment.
PREREQ: EAR101 OR 105.

EAR 111 Climate Change Past and Present 3 Y
Introduction to the science of climate change from the geological record and the last century. Major drivers of global climate, measuring change, and forecasting future climate. Role of human activities in present climate.

EAR 117 Oceanography 3 Y
A comprehensive introduction to the geology, physics, chemistry, and biology of the world ocean and its impact on global climate and environmental concerns.

EAR 203 Earth System Science 4 Y
An integrated view of interactions among earth's systems (lithosphere, biosphere, hydrosphere, atmosphere) and the timescales over which they operate. Topics covered in this course include: plate tectonics, atmospheric circulation, oceanic circulation, the greenhouse effect, the carbon cycle, the origin of the earth and life, and climate.

EAR 225 Volcanoes and Earthquakes 3 Y
Examination of the geologic nature of volcanoes and earthquakes as they are related to plate tectonic activity in the earth. Discussion of related societal hazards.
PREREQ: EAR 101, 105.

EAR 309 Honor Tutorial Geology 1-6 S
Selected topics under guidance of senior staff members. Open only to students in the Honors Program. Prereq: junior standing.

EAR 314 Mineralogy 4 Y
Introduction to the distribution of minerals within the earth, mineral properties (crystallography, crystal chemistry and structure), and the processes that form them. Methods used to identify minerals in hand specimens and an introduction to the techniques of optical mineralogy. Lecture, laboratory and fieldtrips.
PREREQ: EAR 101, 203 OR 104 AND 105;
COREQ: CHE 106,116.

EAR 325 Introduction to Paleobiology 4 Y
Patterns and processes of evolution as expressed in the fossil record. Paleocology, taxonomy, and evolutionary history of major invertebrate phyla.
PREREQ: EAR 101, 102.

EAR 333 Structural Geology 4 Y
Concepts of structural analysis of rocks, stress and strain, rock deformation mechanisms, geologic structures, their properties, and how they are formed. Three lectures and one laboratory a week, field trips including some weekends.
PREREQ: EAR 101 OR 104 AND 105.

EAR 342 Geomorphology 3 Y
Double Numbered with: EAR 542
Landscape formation and evolution as a function of hydrogeologic, glacial, eolian, and tectonic processes acting on earth materials. Lecture, labs, and field trips, including some weekends.
PREREQ: EAR 101, 105 OR 203.

EAR 345 Global Change:Geologic Record 3 Y
Double Numbered with: EAR 545
Scientific evidence for anthropogenically induced environmental changes including global warming and its potential future impacts. Analysis of the near geologic record for evidence of pre-historic natural changes in the global environment and implications for future change.

EAR 404 Advanced Structural Geology 3 E
Double Numbered with: EAR 604
Selected topics in structural geology and tectonics focusing on the mechanics and kinematics of lithospheric deformation. Fundamentals of stress, strain, brittle and ductile deformation, microstructures and rheology. Additional work required of graduate students
PREREQ: EAR 314 AND EAR 333.

EAR 409 Senior Thesis in Earth Science 3-6 S
Independent, hypothesis-driven research involving investigative tools and techniques in the Earth Sciences. Students must submit a written thesis to the department and give a public seminar. Written approval by a faculty supervisor and permission of the department is required. Open only to seniors in B. A. and B.S. programs.

EAR 417 Geochemistry 3 SI
Double Numbered with: EAR 617
Chemistry of earth processes, including basic thermodynamics, solution chemistry, isotopic chemistry, and kinetics; magmatic crystallization, isotope fractionation, formation of carbonate and evaporitic sediment, ion exchange in clays, and Cosmochemistry.
PREREQ: EAR 314, CHE 107, 117.

EAR 418 Petrology 3 SI
Introduction to the origin of igneous, metamorphic, and sedimentary rocks. Classifications, compositions, tectonic setting, and processes governing the distribution of rocks within the earth. Lecture, laboratory, and fieldtrips.
PREREQ: EAR 314.

EAR 419 Environmental Aqueous Geochemistry 3 O
Double Numbered with: EAR 619
Fundamentals of aqueous geochemistry in ground water and surface water in the context of carbonate and silicate dissolution, reactions governing metal oxidation and reduction, mixing of waters and isotopic characterization. One year of college chemistry required. Additional work required of graduate students. R1, 6 credits maximum

EAR 420 Contaminant Hydrogeology 3 O
Double Numbered with: EAR 620
Fundamentals of solute transport, major classes of groundwater contamination, remediation strategies, natural attenuation characterization, fingerprinting of contaminant types. One year of college chemistry, one course in physics or hydrology, one course in calculus. Additional work required of graduate students.

EAR 429 Topics in Paleobiology 3 E
Double Numbered with: EAR 629
Current research in paleobiology with a topical focus. Subjects might include macroevolution, evolutionary paleocology, extinctions and radiations, stratigraphic paleontology, etc. EAR 429 by permission of instructor. Additional work required of graduate students.
PREREQ: EAR 325. R1, 6 credits maximum

EAR 430 Topics in Thermochronology & Tectonics 2 SI
Double Numbered with: EAR 630
Seminar will focus on research topics in thermochronology and tectonics from current literature. Additional work required of graduate students.
PREREQ: EAR 431 OR 631, 444 OR 644.
R3, 8 credits maximum

EAR 431 Plate Tectonics 3 SI
Double Numbered with: EAR 631
Tectonic development of the earth; definition of plates, their boundaries, motions, and driving forces. Analysis and modeling of plate motions. Additional work required of graduate students. Prereq for GOL 431: GOL 333; prereq for GOL 631: GOL 333, MAT 296, PHY 212, CIS/ NAS 197 or equivalent.
PREREQ: EAR 333, PHY 212.

EAR 432 Seafloor Spreading and Oceanic Lithosphere 3 SI
Double Numbered with: EAR 632
An investigation of the products and processes of seafloor spreading from the perspective of geological and geophysical studies of mid-ocean ridge spreading centers, oceanic lithosphere and ophiolite complexes. Additional work required of graduate students.
PREREQ: EAR 333.

EAR 435 Geophysics 3 SI

Double Numbered with: EAR 635

Fundamental geophysical parameters; seismology and earth structure; gravity and magnetic fields with application of potential theory; terrestrial rotation and shape; heat flow, thermal state, and evolution of the earth. Additional work required of graduate students.

EAR 440 Watershed Hydrology 3 Y

Double Numbered with: EAR 640

Focus on physical hydrology at the catchment scale, including water budgets, precipitation, evaporation, surface runoff, groundwater flow and connections to biogeochemistry. Understanding hydrologic concepts and acquiring and analyzing hydrologic data. Additional work required of graduate students. R2, 3 credits maximum

EAR 444 Thermochronology 3 E

Double Numbered with: EAR 644

Methods used in Earth Sciences to determine temperature-time histories of crustal terranes including $^{40}\text{Ar}/^{39}\text{Ar}$, fission track, and U-Th/He techniques. Diffusion theory and applications of thermochronology to tectonics and landscape evolution, P-T-t paths of crustal terranes. Additional work required of graduate students. PREREQ: EAR 418.

EAR 455 Geochemical Patterns in the History of Earth and Life 3 O

Double Numbered with: EAR 655

Insights gained from the geochemistry of fossils and sedimentary sequences into the history of the earth's surface. Emphasis on relationships between the biological world and the physical environment as revealed through stable and radiogenic isotopes and elemental chemistry. EAR 455 by permission of instructor. EAR 377 recommended. Additional work required of graduate students.

EAR 470 Experience Credit 1-6 Y

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

EAR 478 Isotope Geology 3 SI

Double Numbered with: EAR 678

Isotope geochemistry is used in all branches of earth sciences. This course covers the following topics: Radioactive decay, Rb-Sr, Sm-Nd, and Lu-Hf isotope geochemistry; U-Pb geochronology, ^{14}C dating; O, H, and C isotope geochemistry. Additional work required of graduate students. PREREQ: EAR 417/617.

EAR 483 Departmental Colloquium 1 S

Double Numbered with: EAR 683

Students attend the Department of Earth Sciences colloquium lectures and write up summaries of a subset of talks. Provides exposure to current research in a wide array of Earth Science disciplines. Additional work required of graduate students. R2, 3 credits maximum

EAR 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

EAR 510 Paleolimnology 3 IR

The records of environmental change contained within lake sediments. Basic background in limnology followed by field/laboratory research projects and presentations. Upper division undergraduate science majors.

EAR 517 Sedimentary Processes and Systems 4 Y

Ancient sedimentary rocks and their modern analogs. Physical and chemical aspects of sedimentation and diagenesis. Lecture, laboratory, and field trips. PREREQ: EAR 314.

EAR 541 Hydrogeology 3 Y

Fundamentals of groundwater hydraulics. Aquifer flow systems analysis and evaluation. Groundwater-surfacewater relationships. Groundwater chemistry. PREREQ: EAR 101, MAT 296, PHY 212.

EAR 542 Geomorphology 3 SI

Double Numbered with: EAR 342

Landscape formation and evolution as a function of hydrogeologic, glacial, eolian, and tectonic processes acting on earth materials. Lecture, labs, and field trips, including some weekends.

EAR 544 Quarrynry Envr&Climte Chng 3**EAR 545 Global Change:Geologic Record 3 Y**

Double Numbered with: EAR 345

Scientific evidence for anthropogenically induced environmental changes including global warming and its potential future impacts. Analysis of the near geologic record for evidence of pre-historic natural changes in the global environment and implications for future change.

EAR 555 Environmental Geophysics 3 SI

Comprehensive introduction to the geophysical methods used for exploring the shallow subsurface, and their application to problems in environmental geology. PREREQ: PHY 211, 212, MAT 295, 296.

EAR 590 Independent Study 1-3 SI

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

Economics**ECN 101 Introductory Microeconomics 3 IR**

Introduction to microeconomics. Consumer demand, theory of production, markets and prices, social welfare, and related topics. Credit is given for either ECN 101, 102 or ECN 203.

ECN 102 Introductory Macroeconomics 3 IR

Introduction to concepts and methods of economic analysis. Emphasis on such macroeconomic topics as gross domestic product, unemployment, money, and theory of national income. Credit is given for either ECN 101,102 or ECN 203.

ECN 203 Economic Ideas and Issues 3 S

Foundation of modern Western economic thought. The model economists have built on this foundation as applied to current issues facing individuals and society. Credit is given for either ECN 203 or ECN 101, 102 or ECN 109.

ECN 258 Poverty and Discrimination in America 3 IR

Crosslisted with: WGS 258

Nature and causes of inequality, poverty, and discrimination in rural and urban America. Income maintenance, employment, training, education, and other antipoverty programs; antidiscrimination and equal opportunity policies. Students may not receive credit for both ECN/WGS 258 and ECN/WGS 358.

ECN 270 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

ECN 290 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

ECN 300 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ECN 301 Intermediate Microeconomics 3 S

Concepts and tools for the analysis of the behavior of consumers and firms, consumption decisions, market structures, and general equilibrium. Pricing, production, purchasing, and employment policies. Both ECN 301 and 311 cannot be counted toward the major/minor. Credit cannot be given for ECN 301 after completing ECN 311.

Quantitative skills requirements of liberal arts core recommended.

PREREQ: ECN 203.

ECN 302 Intermediate Macroeconomics 3 S

National product and income concepts, measurements, and relationships; interrelationships of the major segments of the national economy; forces affecting the general level of economic activity. Quantitative skills requirements of liberal arts core recommended.

PREREQ: ECN 203.

ECN 310 Special Topics In Economics 3 IR

Various special topics of economic issues offered as available.

PREREQ: ECN 203. R

ECN 311 Intermediate Mathematical Microeconomics 3 Y

Covers the same topics as covered in ECN 301, but the presentation is more mathematical than ECN 301. Both ECN 301 and 311 cannot be counted towards the major/minor. Credit cannot be given for ECN 301 after completing ECN 311.
PREREQ: ECN 203, MAT 284 OR 285 OR 295.

ECN 325 Economics and Gender 3 IR

Crosslisted with: WGS 325
Economic issues examined within a gender sensitive context. Includes the economics of family, the economics of marriage, and labor market discrimination and segregation.

ECN 355 Economics of Health and Medical Care 3 IR

Application of economics concepts to the study of health care, especially the U.S. system. Topics include the nature of the commodity health care; health production functions; markets; financing; behavior of providers; public policy; reform proposals.
PREREQ: ECN 203.

ECN 358 Economics of US Poverty and Discrimination 3 Y

Crosslisted with: WGS 358
Economic analysis of inequality, poverty, and discrimination, as applied to USA. Income maintenance, employment, training, education, and other antipoverty programs; antidiscrimination and equal opportunity policies. Students may not receive credit for both ECN/WGS 258 and ECN/WGS 358.
PREREQ: ECN 203.

ECN 361 Economics of European Integration 3

Origins and history of European Union integration, integration of trade, financial and monetary policies, the Euro, and EU external trade relations. Offered only in Florence.

ECN 362 Globalization Development and Environment 3 S

Offered only in London. Differing perspectives on changing global economy and nature of modern state. Key ideas regarding development through experiences of developing countries in Asia and Africa.

ECN 363 Economic Development of China 3 S

Offered only in Hong Kong. Examines the economic development of China since 1949, including impact of such policies as the Great Leap Forward, the Cultural Revolution, Deng's Open Door commitment, and current strategies.

ECN 364 International Economic Relations 3 S

Offered only in Hong Kong. Economic links binding countries and similar political entities. Topics include development of global trade regime, impacts of globalization, dynamics of financial crisis, rise of transnational corporations.
PREREQ: ECN 203 OR ECN 101, 102..

ECN 365 The World Economy 3 S

Non-technical introduction to analysis of international economic issues. Protectionism, the multinational firm, the debt crisis, international macroeconomic policy coordination, and European integration. May not be used to satisfy the economics major upper-division elective requirement.
PREREQ: ECN 203.

ECN 366 Economic Policies of the European Union 3 S

Offered only in Strasbourg. European economy, with central focus on economic principles underlying decisions to create and extend scope of European Community and on economic policies EU has followed since creation.

ECN 373 Industrial Organization & Policy 3 IR

Analysis of structure, conduct, and performance of industry. Experience with antitrust laws and trade regulations. Case studies of specific industries.
PREREQ: 203.

ECN 390 Independent Study 1-6

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

ECN 400 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ECN 410 Topics in Economic Applications 3 IR

Various topics in economic policy and applications. R

ECN 431 Public Economics 3 Y

Theory of the public sector. Government expenditures, revenue, and debt. Intergovernmental fiscal relations. Government contributions to stabilization and growth. Interaction of public and private sectors.
PREREQ: ECN 301 OR 311.

ECN 435 State and Local Public Finance 3 IR

Economic analysis of state and local government structures. Description and equity-efficiency-yield implications of state and local government tax systems. Determinants and consequences of state and local government expenditures. Fiscal federalism.
PREREQ: ECN 301 OR 311.

ECN 441 Urban Economics 3 Y

Theoretical and empirical analyses of growth, structure, and resource allocation in urban regions. Selected urban problems: housing and housing finance; poverty; transportation neighborhood degradation; and financing local public services.
PREREQ: ECN 301 OR 311.

ECN 451 Labor Economics 3 Y

Contemporary theories and issues of public policy concerning labor supply and demand, wage determination, disincentive effects of public transfer payments (e.g. welfare), unemployment, human capital, and unions.
PREREQ: ECN 301.

ECN 465 International Trade Theory and Policy 3 Y

Economic causes and consequences of international trade. Models of trade, gains from trade, tariffs and other controls on trade, and international institutions guiding the trading systems.
PREREQ: ECN 301 OR 311.

ECN 470 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

ECN 481 Introduction Money & Banking 3 Y

Financial instruments and structure: commercial banking organization, operation and control of the banking system. Federal Reserve System. Monetary policy and economic stability.
PREREQ: ECN 302.

ECN 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

ECN 495 Distinction Thesis Seminar in Economics I 3 Y

First semester in a year-long course for economics undergraduate thesis students who are oriented to professional economics research and guided as they define their thesis projects. Senior economic students only. Permission from Instructor.

ECN 496 Distinction Thesis Seminar in Economics II 3 Y

Second semester in a year-long course for economics undergraduate thesis students who will present ongoing research, constructively engage the work of other thesis writers, and work in cooperation with a faculty mentor to complete research. Senior economic students only. Permission from Instructor.

ECN 499 Honors Thesis 3 S

A thesis in selected aspects of economic analysis. Senior economics honors students only.

ECN 500 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ECN 505 Mathematical Economics 3 Y

Introduction to use of basic mathematical techniques in economic analysis.
PREREQ: MAT 284 OR 286 OR 296, ECN 301 OR 311.

ECN 510 Special Topics in Economics 3 IR
Various special topics of economics issues offered as available.
PREREQ: ECN 301, 311, OR 601. R5, 18 credits maximum

ECN 521 Economic Statistics 3 S
Statistical methods applied to economics. Conventional descriptive statistics, conceptual and measurement problems peculiar to economics. Analytical statistics, including time-series analysis, elementary theory of probability and statistical inference, correlation and regression analysis. Nonparametric methods. This course is not suitable for students who have taken six credits of statistics to fulfill their quantitative skills requirement. Quantitative skill requirements of liberal arts core is recommended.

ECN 522 Econometric Methods 3 Y
Statistical procedures. Problems of estimating parameters in regression models of economic behavior.
PREREQ: ECN 521, ECN 301 OR 311.

ECN 525 Economics and Gender 3 Y
Crosslisted with: WGS 525
Offered only in Strasbourg. European economy, with central focus on economic principles underlying decisions to create and extend scope of European Community and on economic policies EU has followed since creation.

ECN 566 International Macroeconomics and Finance 3 Y
Monetary, fiscal, and regulatory consequences of mushrooming international financial markets including equities, bonds and other securities, commodity and options contracts, and bank deposits and loans.
PREREQ: ECN 302.

ECN 575 Law and Market Economy 3 IR
Use of economic tools in the analysis of law and legal regulations, including use of economic incentives to analyze evolution of legal institutions and impact of these institutions on economic dynamics.
PREREQ: ECN 301 OR 311, ECN 302.

English And Textual Studies

ETS 107 Living Writers 3 S
Introduction to visiting writers and their work. Lectures and small group sections emphasize dynamic and plastic nature of writing. Opportunity to question the authors directly on content, influences, and technique.

ETS 113 Survey of British Literature, Beginnings to 1789 3 Y
British literature before 1789.

ETS 114 Survey of British Literature, 1789 to Present 3 Y
British literature since 1789.

ETS 115 Topics in British Literary History 3 Y
Literary and cultural texts from Great Britain and the Commonwealth studied in the context of British history, culture, and politics. Readings may be focused by historical or thematic issues. R2, 9 credits maximum

ETS 117 Survey of American Literature, Beginnings to 1865 3 Y
American writing before 1865, mainly from the English-speaking colonies and the United States.

ETS 118 Survey of American Literature, 1865 to Present 3 Y
American writing since 1865, mainly from the United States.

ETS 119 Topics in U.S. Literary History 3 Y
United States literary and cultural texts studied in the context of American history, culture, and politics. Readings may be focused by historical periods or thematic issues. R2, 9 credits maximum

ETS 121 Introduction to Shakespeare 3 Y
Selected plays of Shakespeare read in conjunction with performances on video and CD-ROM.

ETS 142 Narratives of Culture: Introduction to Issues of Critical Reading 3 IR
Exploration of complexities of contemporary reading and interpretation of varied texts of culture. Concepts such as authorship, the book, readers, textuality, and contexts.

ETS 145 Reading Popular Culture 3 S
Semiotic analysis of American culture and its artifacts. Topics of analysis may include consumerism, advertising, film, music, TV, video, language, gender/race/class, mythic characters, cultural outlaws, virtual culture.

ETS 151 Interpretation of Poetry 3 S
Critical study of poetry from various historical periods. Formal, theoretical, and interpretive issues.

ETS 152 Interpretation of Drama 3 Y
Critical study of drama from various historical periods. Formal, theoretical, and interpretive issues.

ETS 153 Interpretation of Fiction 3 S
Critical study of fiction from more than one historical period. Formal, theoretical, and interpretive issues.

ETS 154 Interpretation of Film 3 S
Critical study of film from various historical periods. Formal, theoretical, and interpretive issues.

ETS 181 Class and Literary Texts 3 Y
Construction and representation of "class," especially as it affects the production and reception of literary and other cultural texts.

ETS 182 Race and Literary Texts 3 Y
Construction and representation of "race," especially as it affects the production and reception of literary and other cultural texts.

ETS 184 Ethnicity and Literary Texts 3 Y
Ethnicity in literary and theoretical texts. Emphasizing conceptual paradigms, social issues, and aesthetic considerations in the practice of reading texts from ethnically differentiated literary traditions.

ETS 192 Gender and Literary Texts 3 Y
Crosslisted with: WGS 192
Construction and representation of "gender," especially as it affects the production and reception of literary and other cultural texts.

ETS 200 Selected Topics 1-3 IR
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ETS 215 Sophomore Poetry Workshop 3 S
Practice in writing poetry.

ETS 217 Sophomore Fiction Workshop 3 S
Practice in writing fiction.

ETS 230 Ethnic Literary Traditions 3 IR
Studies in an ethnic literary tradition such as Latino, Irish, or Judaic literature. R

ETS 235 Classics of World Literature I 3 Y
Readings from ancient Mesopotamia, Egypt, China, India, Greece, Israel, Rome, and Arabia investigate notions of literary merit, and their social, religious, and political ramifications in relations to historical context (ca. 2500 BCE-1000 CE).

ETS 236 Classics of World Literature II 3 Y
Readings from great women writers of Japan and from Dante, Cervantes, and Shakespeare; and from world oral and written traditions that investigate notions of literary merit and their ramifications in historical context (ca. 1000 CE-present).

ETS 242 Reading and Interpretation 3 S
Introduction to questions of textuality and representation, making use of some theoretical material. Multiple ways of reading, with some emphasis on techniques of close textual analysis.

ETS 270 Experience Credit 1-6 SI
Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

ETS 290 Independent Study 1-6 SI
In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

ETS 301 Reading and Writing Prose 3 IR
Creative and critical engagement with the practices of reading and writing prose. Emphasis on both analytical and creative work.

ETS 303 Reading and Writing Fiction 3 IR
Creative and critical engagement with the practices of reading and writing fiction. Emphasis on both analytical and creative work.

ETS 304 Reading and Writing Poetry 3 IR
Creative and critical engagement with the practices of reading and writing poetry. Emphasis on both analytical and creative work.

ETS 305 Critical Analysis 3 S
Objects, methods, and theories of one or more modes of critical reading.
PREREQ: ETS 242. R2, 9 credits maximum

ETS 310 Literary Periods 3 Y
Chronological periods or movements in literary history; issues of periodization. R2, 9 credits maximum

ETS 315 Ethnic Literatures and Cultures 3 Y
Readings in one or more ethnic literature and culture, such as Irish, Italian American, Judaic, Latino, Native American, or Asian American. R2, 9 credits maximum

ETS 320 Authors 3 Y
One or more authors studied in relation to literary, social, and/or biographical history. R2, 9 credits maximum

ETS 325 History and Varieties of English 3 Y
Issues in the history and heterogeneity of the English language.

ETS 330 Theorizing Meaning and Interpretation 3 IR
Modes of theorizing textual and cultural interpretation. R2, 9 credits maximum

ETS 340 Theorizing Forms and Genres 3 Y
Literary forms and genres and their features. R2, 9 credits maximum

ETS 345 Critical Theory 3 IR
Advanced survey of contemporary theories of cultural and literary analysis.

ETS 350 Reading Nation and Empire 3 IR
National cultures, imperialism, and resistance. R2, 9 credits maximum

ETS 355 The Politics of the English Language 3 IR
How culture embeds and enacts attitudes toward language: emergence of "standard" English, world Englishes and globalization, English-Only movement, gender and language, Ebonics, political correctness.

ETS 360 Reading Gender and Sexualities 3 Y
Crosslisted with: WGS 360
Textual, cultural, and/or historical constructions of gender and sexualities. R2, 9 credits maximum

ETS 401 Advanced Writing Workshop: Poetry 3 S
Extensive practice in writing poetry. R1, 6 credits maximum

ETS 403 Advanced Writing Workshop: Fiction 3 S
Extensive practice in writing fiction, particularly the short story. R1, 6 credits maximum

ETS 405 Topics in Medicine and Culture 3 IR
Special topics in medicine and culture. Topics will vary.

ETS 410 Forms and Genres 3 Y
A literary genre studied in a particular historical period. R2, 9 credits maximum

ETS 420 Cultural Production and Reception 3 IR
Historical study of how the production and reception of cultural texts influence their interpretation. R2, 9 credits maximum

ETS 425 Topics in Historical Modes of Inquiry 3 IR
Thematic, critical or methodological issues in the historical study of texts. R2, 9 credits maximum

ETS 426 Literature, Culture, and Social Change 3 IR
Thematic, critical, or methodological issues in the historical study of texts. May be repeated for credit when topics vary. R2, 9 credits maximum

ETS 430 Theorizing Representation 3 IR
Theories, modes, and effects of representation. R2, 9 credits maximum

ETS 440 Theorizing History and Culture 3 IR
One or more theories of history, historicity, and culture. R2, 9 credits maximum

ETS 444 Topics in Theoretical Modes of Inquiry 3 IR
Thematic, critical, or methodological issues in the theoretical study of texts. May be repeated for credit when topics vary. R2, 9 credits maximum

ETS 450 Reading Race and Ethnicity 3 IR
Constructions of race and/or ethnicity in various cultural texts and discourses. R2, 9 credits maximum

ETS 460 Reading Class and Economic Materiality 3 IR
Discourses of class and economic materiality as sites of power and resistance. R2, 9 credits maximum

ETS 464 Reading Institutions and Ideologies 3 IR
The studies of institutions and ideologies in mediating and determining cultural representations, political power, and knowledge. R2, 9 credits maximum

ETS 465 Topics in Political Modes of Inquiry 3 IR
Thematic, critical, or methodological issues in the political study of texts. May be repeated for credit when topics vary. R2, 9 credits maximum

ETS 470 Experience Credit 1-6 SI
Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

ETS 490 Independent Study 1-6 SI
In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

ETS 494 Research Practicum in English and Textual Studies 1 Y
Intensive practice in research and study of research methodologies aimed at defining an ETS thesis project. Permission of department required.

ETS 495 Thesis Workshop 2 Y
Intensive directed research and writing aimed at producing an ETS thesis project.

ETS 499 Honors in English 3-6 IR

English As A Second Language

ENL 201 Intermediate English for Non-native Speakers 3 Y
First of a two-semester, integrated-skills course preparing students to participate in academic contexts. Students review fundamental and more advanced grammar structures through a variety of activities that involve speaking, listening, reading, and writing.

ENL 202 Intermediate English for Non-native Speakers 3
Second of a two-semester integrated skills course preparing students to participate in academic contexts. Students review fundamental and more advanced grammar structures through a variety of activities that involve speaking, listening, reading, and writing.

ENL 203 Speaking and Listening for Non-native Speakers of English 3 S
Speaking/listening focused on academic and social situations. Intensive work on note-taking and the sounds, stress, rhythm, and intonation of English, practiced in group work and presentations. Can be taken with any other ENL course.

ENL 207 Advanced Integrated Skills for Non-native Speakers of English 3 S
An integrated skills course focusing on academic writing and reading. Emphasizing paragraph organization and development, complex sentence structures, reading skills, and vocabulary.
PREREQ: ENL 202.

ENL 211 Composition for Non-native Speakers of English 3 S
Expository writing and reading. Students develop an awareness of the cultural and discourse expectations in written English, through reading and responding to articles on a variety of topics and writing essays of increasing complexity.
PREREQ: ENL 201, 202, 207.

ENL 213 Advanced Academic Writing and Research for Non-native Speakers of English 3 S

Development of critical reading and thinking skills used in scholarly research in a variety of disciplines. Students learn to summarize, synthesize, critique, and document, and use library resources effectively.
PREREQ: ENL 211.

Foreign Languages And Literatures

FLL 131 Chinese Writing 1 S

Offered only in Hong Kong. Intensive writing class for students who have no prior knowledge of Chinese writing. Origin of Chinese characters; traditional Chinese writing forms will be taught.

FLL 141 Beginning Cantonese Conversation 1 S

Offered only in Hong Kong. Formal and colloquial speech; effective communication with native Cantonese speakers; culture and day-to-day life.

FLL 404 'AZAHAR' The Islamic Conquest and the Christian Reconquest 2 S

Crosslisted with: HUM 404
Thirteen day interdisciplinary seminar. Lectures in situ. Artistic, historical, cultural monuments of Cordoba, Sevilla, Granada and Toledo or Salamanca. Theological, philosophical and historical thought as to recreate the artistic and cultural climate of medieval al-Andalus/Spain.

Forensic Science

FSC 406 Advanced Forensic Science 3 Y

Crosslisted with: SOL 406; Double Numbered with: FSC 606
Selected areas of current interest in forensic science presented. The application of scientific methods and techniques to crime detection and the law.
PREREQ: CHE 113 OR CHE 106 OR CHE 109 OR BIO 121.

FSC 444 Forensic Chemical Analysis 4 Y

Double Numbered with: FSC 644
Lecture and laboratory on analytical methods of forensic chemistry. Underlying theory and direct experience in various chemical tests and spectroscopic methods. Additional work required of graduate students.
PREREQ: CHE 116 OR 119; CHE 117 OR 139.

FSC 498 Capstone Seminar in Forensic Science 4 Y

Explore specific overlaps of primary major with forensic science, make contacts with practitioners in the field, complete a capstone project, and present findings. Project will be determined through consultation between the student, instructor, and at least one practitioner. First offered in Spring 2011

French And Francophone Studies

FRE 101 French I 4 Y

Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in French. No prior experience or admission by placement testing.

FRE 102 French II 4 S

Continuing proficiency-based course which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts. Activities are conducted in French.
PREREQ: FRE 101.

FRE 200 Selected Topics 1-3 Y

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

FRE 201 French III 4 S

Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in French.
PREREQ: FRE 102.

FRE 202 French IV 4 S

Continuing proficiency-based course which focuses on reading, discussing, and analyzing authentic texts as a basis for the expression and interpretation of meaning. Conducted in French.
PREREQ: FRE 201.

FRE 210 Intermediate Oral Practice 1 S

Additional practice for students in FRE 201 or above. Attention confined to the spoken language. Weekly discussion of a variety of topics in French.
PREREQ: FRE 102. R

FRE 290 Independent Study 1-6 IR

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

FRE 300 Selected Topics 1-3

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

FRE 301 French Grammar and Composition 3 Y

Advanced study of French language structures and practice in writing skills. Conducted in French.
PREREQ: FRE 202.

FRE 302 French Phonetics and Conversation 3

Study of French pronunciation, the phonetic alphabet, and phonology. Conversational practice based upon selected aspects of French life and culture. Conducted in French.
[Effective spring 2009]
PREREQ: FRE 202.

FRE 305 Evolution and Revolution through the Centuries 3 E

Evolution of French literature: Middle Ages to French Revolution. Retracing trajectory that les lettres francaises followed, from first 'song' composed in French to various points of new genres invented, experimented, incorporated in body of literature. Conducted in French.
PREREQ: FRE 202.

FRE 306 From Romanticism to Postmodernism 3 E

Representative works from the 19th century to present. Special emphasis on major literary movements (i.e. romanticism, realism, naturalism, modernism, post-modernism) and their influences. Conducted in French.
[Effective spring 2009]
PREREQ: FRE 202.

FRE 307 Varieties of Realism 3 Y

Realist forms of literature in 19th- and 20th-century French literature through close readings and analyses of narrative techniques. Offered in Strasbourg only.
PREREQ: FRE 202.

FRE 315 French Civilization 3 O

A survey of social and cultural evolution in France from prehistoric times to 1958.
Conducted in French.
PREREQ: FRE 202.

FRE 316 Contemporary French Culture 3 O

French society and culture from post-World War II to present: contemporary French politics, economy and society, dynamics of intellectual and cultural milieus. Underlying principles of French culture, i.e. definition of self, society distinguishing France from others. Conducted in French.
PREREQ: FRE 202.

FRE 317 Business French 3 O

Language usage in relation to French business. Conducted in French.
PREREQ: FRE 202.

FRE 325 Junior Language Usage 3 IR

Continuation of FRE 325. Also offered regularly abroad.

FRE 400 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

FRE 401 Translation/Traduction 3 O

Theory and practice of translation (French to English and English to French) using a variety of texts. Focus on Ottomans, Italy, France, Iberia, North Africa, 1348-1789. Topics include international relations and empire-building in Africa, Asia, and Europe, commerce, piracy, plague, religion, family/sexuality, architecture, political and cultural developments during Renaissance, Age of Discovery, Enlightenment.

FRE 403 Eighteenth-Century French Literature and Film Adaptation 3 E
A critical study of the cinematic adaptation of selected French and Francophone literary texts. Conducted in French. [Effective spr 2009]

FRE 405 French Culture in Age of Louis XIV 3 O

Double Numbered with: FRE 605
Study of French literature, aesthetics and culture of absolutism. Conducted in French. Additional work required of graduate students.

FRE 407 French Libertine Fictions 3 E

Double Numbered with: FRE 607
Analysis of seventeenth- and eighteenth-century French libertine texts and their relation to philosophy, art, religion, and society. Conducted in French. Additional work required of graduate students.

FRE 409 French Culture and Revolution 3 O

Double Numbered with: FRE 609
French enlightenment literature and culture considered within the context of the French Revolution. Conducted in French. Additional work required of graduate students.

FRE 411 Moliere 3 E

Double Numbered with: FRE 611
Study of the playwright's major works in light of contemporary political, social, and cultural trends. Conducted in French. Additional work required of graduate students. [Effective spring 2009]

FRE 412 French Women Writers 3 E

Crosslisted with: WGS 412; Double Numbered with: FRE 612
Trends in French feminine and feminist writing from the early modern period to the present. Conducted in French. Additional work required of graduate students.

FRE 417 "Impressions d'Afrique": Caribbean Gazes 3 O

Double Numbered with: FRE 617
A survey of African issues through the eyes of Francophone Caribbean writers and their texts. Conducted in French. Additional work required of graduate students.

FRE 419 Sembene Ousmane and the African Cinema 3 E

Double Numbered with: FRE 619
A study of Sembene Ousmane's work as an introduction to the aesthetics and politics of Black African Cinema, and to issues of film history and theory. Conducted in French. Additional work required of graduate students.

FRE 421 Francophone African Criticism 3 E

Double Numbered with: FRE 621
Major trends in Francophone African literary criticism. Conducted in French. Additional work required of graduate students.

FRE 439 Art in France from Impressionism to Surrealism 3 IR

Crosslisted with: HOA 365
Focus on major painters who lived and worked in Paris from 1860 to 1945. Emphasis on analyzing and writing about painting. Field trip to Paris. Conducted in French. Offered in Strasbourg only. [Effective spring 2009]

FRE 441 France Under the Occupation 3 Y

Interdisciplinary study of the Occupation period (1940-1945) through documents, films, and creative works. Offered in Strasbourg only. Must have completed two 300-level French courses.

FRE 443 Modern French Drama 3 Y

Introduction to major French playwrights from the late nineteenth century to the present. Includes outings to productions in Strasbourg's theaters. Offered in Strasbourg only. Must have completed two 300 -level French courses.

FRE 447 France from the Revolution to the Great War 3 Y

Crosslisted with: HST 447
Study of the rise of the French Republic, its revolutions, and its recurrent lapses into authoritarian rule, notably under Napoleon I and III. Conducted in French. Offered in Strasbourg only. [Effective spring 2009]

FRE 449 France from the Treaty of Versailles to European Integration 3 Y

Crosslisted with: HST 449
Analysis of major events in recent French history, including the rise of the Popular Front, the Nazi Occupation, the end of colonial rule, and the process of European integration. conducted in French. Offered in Strasbourg only. [Effective spring 2009]

Geography

GEO 103 America and the Global Environment 3 S

Relationship between people and their environment. Population change, natural resource use, sustainability. Associated environmental problems. Historical developments and future possibilities.

GEO 105 World Geography 3 IR

World geography, people's relation to the land. Major concepts of geography for nonspecialists.

GEO 155 The Natural Environment 3 S

Patterns of the physical phenomena at and near the surface of the earth. Surface configuration, climate, vegetation, and soil and their areal interrelationships.

GEO 171 Human Geographies 3 S

An integrative overview to human geography. Topics include human-environmental relations, demographic change, cultural landscape; urban and agricultural land use and economic restructuring.

GEO 200 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. * R

GEO 203 Society and the Politics of Nature 3 IR

Biophysical and social contexts of environmental problems and decision making. U.S. and international issues considered, linking local, regional, and global scales of analysis. Case examples include water management, energy policy, global warming, sustainable development.

GEO 215 Global Environmental Change 3 Y

Focussing on physical processes and patterns of environmental change, changes occurring as a result of human activities, and the social consequences of environmental change.

GEO 219 American Diversity and Unity (Honors) 3 Y

Ethnic and racial interactions that influenced American culture's present form, both visible (i.e., landscape) and invisible. Contemporary sociocultural changes in the frontier/West/Alaska, southern California, and the South. For honors students.

GEO 270 Experience Credit 1-6 IR

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

GEO 272 World Cultures 3 Y

The globalization of culture and the persistence of local cultures around the world. Case studies from different regions of the world examine geographical processes that shape ways of life.

GEO 273 World Political Economy 3 Y

Survey of emergence of an integrated global political economy from the sixteenth century to the present. Creation of "developed" and "under-developed" regions. Case studies of the impact of global transformations on regions and institutions.

GEO 300 Selected Topics 1-3 Y

Selected Topics R

GEO 311 The New North Americas 3 E

Critical study of social, political, economic, and cultural processes across contemporary North America. Focus on geographies of globalization, transnationalism, economic restructuring, and new social movements, with particular attention to race/ethnicity, gender, power, and resistance.

GEO 313 The United States 3 E

Cultural, social, and regional approaches toward understanding the geography of the United States. American national identity and cultural landscape, regional consumer behavior patterns, and current regional issues.

GEO 314 Hazardous Geographic Environments 3 Y

Mapping and public policy for natural and technological hazards. Risk perception, geographic modeling, and vulnerability assessment. Mitigation measures, risk mapping, land-use restrictions, and emergency planning.

GEO 316 River Environments 3 Y

Characteristics of river environments, including hydroclimatology, floods, landforms, vegetation, human impacts, and resource management issues.

GEO 317 Geography of Mountain Environments 3 O

Physical and human geography of mountain regions. Focus on tectonic, geomorphological, biogeographical, and climatic processes; resource use problems and patterns, conservation, and development; environmental hazards.

GEO 318 Tropical Environments 3 E

Tropical ecosystems and their human dimensions, with an emphasis on the Neotropics. Distribution, structure, and function of natural systems; human-environment interactions; management and significance.

GEO 319 Cold Environments 3 O

An exploration of environmental processes, human environment interactions, and environmental problems in the cold regions of the world, emphasizing the Arctic.

GEO 321 Latin American Development: Spatial Aspects 3 IR

Crosslisted with: LAS 321

Spatial dimensions of development process in Latin America since the 1930s in a variety of contexts and at several scales. Variety of spatial models that may be applied.

GEO 325 Colonialism in Latin America 3 S

Processes of geographical change in Latin America from the sixteenth to the early twentieth century. Reconstruction of geographies of Latin America at critical periods.

GEO 326 The Geography of Climate and Weather 3 Y

Atmospheric dynamics emphasizing spatial distributions of energy and moisture at several scales. Weather phenomena, regional climates, and human-induced perturbations and modifications of climate systems. Land-use change, climate change, climate change and urban climatologies.

PREREQ: GEO 155 OR GOL 101.

GEO 327 Geography of Coastal Environments 3 E

Natural environmental processes in the coastal zone. Emphasis on coastal transformation due to climate variability and change, estuarine pollution and habitat destruction, human modification; and subsequent associated societal hazards and implications.

PREREQ: GEO 155.

GEO 331 The European Union 3 Y

Geo-political foundations, post World War II economic and political developments, European community institutions, integration and external relations.

GEO 347 Art and Environment in American Culture Since 1800 3

Crosslisted with: HOA 482

Visual arts and environmental concern in the U.S. from the early national period to the present. Emphasizing diversity of artists and forms, the changing cultural constructions of nature, and tracing an ecological tradition in art.

GEO 353 Geographies of Environmental Justice 3 E

The relationship between environmental quality and social justice. Spatial aspects of unequal distribution of environmental risks and benefits. Case studies drawn from urban rural examples in both the United States and the Third World.

GEO 354 American Environmental History and Geography 3 Y

Crosslisted with: HST 384

Relationship between Americans and the natural environment from the colonial period to the present. Ecological imperialism, technology and nature, resource management conflicts, urban environments, development of conservation and environmentalism.

GEO 356 Environmental Ideas and Policy 3 Y

Fundamental ideas relating to underlying evolution and implementation of environmental policy in the USA.

GEO 361 Global Economic Geography 3 IR

World patterns of production and consumption in the context of regional resources and population problems. Impact of technological change on geographic organization of economic systems. Concepts in economic geography and their policy implications.

GEO 362 The European City 3 Y

Historical development of Europe through its cities. Growth and form of European cities; how they are governed and planned.

GEO 363 Cities of North America 3 Y

Urban images and sense of place. Urbanization and urban growth. Urban functions and form. Social patterns, change, and transformations of urban landscapes. Housing, neighborhood, and land-use change.

GEO 367 Gender in a Globalizing World 3 IR

Crosslisted with: ANT 367, WGS 367

Economic and cultural processes of globalization as they affect different groups of men, women, and households; including gender and work, gender and the media, and redefinitions of masculinity and femininity across the globe.

GEO 372 Political Geography 3 Y

Geographic analysis of the political process at a variety of spatial scales - international, intra-national, and urban. Origins of territorial organization and conflicts over access to and use of space.

GEO 381 Cartographic Design 4 Y

Basic elements of cartographic design, including symbolization, figure-ground relationships, color theory, and typography. Effect of scale and projection on design process. Computer-assisted methods of cartographic design, including graphic representations for geographic information systems.

GEO 383 Geographic Information Systems 3-4 S

Double Numbered with: GEO 683

Basic concepts in spatial data handling. Algorithms and data structures for Geographic Information Systems (GIS). Demonstration of power, potential, and limitations of GIS. Graduate students register for three credits. Undergraduate students register for four credits with required laboratory work.

GEO 386 Quantitative Geographic Analysis 3 Y

Descriptive and inferential statistics for use in geo-referenced data, spatial autocorrelation, and geostatistics. Geographic examples. Weekly labs.

PREREQ: STT 101, MAT 121, MAT 183 AND MAT 221.

GEO 388 Geographic Information and Society 3 O

Double Numbered with: GEO 688

Effects of geographic information technologies on governments, communities, and individuals. Mapping as an information industry, a political process, a surveillance technology, and a communication medium. Copyright, access, hazard management, national defense, public participation, and privacy.

GEO 400 Selected Topics 1-3 Y

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

GEO 405 Conservation and Management Protected Areas: South Africa-OTS 4

Crosslisted with: ANT 405

Taught in South Africa through the Organization for Tropical Studies program. Analyze management of wildlife and natural resources within ecological, political, social, historical, and economic context of South Africa.

GEO 428 Auld Reekie: Scotland and the Road to London 3 IR

Field studies seminar examining popular and elite cultural forms that organize life in Britain. Emphasizes interaction with local culture environments to explore contemporary identities and how and why identity and attitude are formed. Offered in London only.

GEO 440 Race and Space 3 O

Critical geographic study of race and racism as formative aspects of sociocultural, economic and political processes. Focus on race/racism's operations across scales, with particular attention to gender, class, culture, colonialism, citizenship, power, and resistance.

GEO 463 Geography of Homelessness 3 E

Examines the roots and consequences of homelessness in contemporary cities. Focus on United States and globalization of American-style homelessness. Explores role of space and spatial relationships in shaping homeless people's lives and homeless policy.

GEO 470 Experience Credit 1-6 IR

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

GEO 482 Environmental Remote Sensing 3 Y

Principles and environmental applications of remote sensing. Uses and limitations of remotely-sensed data; typical image processing operations and analyses; laboratory work and individual term project using remotely-sensed imagery.

GEO 490 Independent Study 1-6 IR

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

GEO 491 Senior Seminar in Geography 3 Y

Research and presentations in a selected field of geography. Topic announced each time offered. Primarily for advanced geography majors and minors. PREREQ: GEO 155, 272.. R

GEO 492 Senior Thesis Seminar 3 Y

Seminar for senior geography majors graduating with distinction. Individualized and small-group mentoring and directed research.

GEO 499 Honors Thesis in Geography 3 S

GEO 500 Topics in Geography 1-3 Y

In-depth studies of selected topics. R

GEO 510 Research on North America 1-3 IR

Reading and special work R

GEO 520 Research on Latin America 1-3 IR

Crosslisted with: LAS 520
Reading and special work R

GEO 530 Research on Africa 1-3 IR

Reading and special work. R

GEO 537 Environmental Policy in a Development Context 3 S

Crosslisted with: LAS 537

Offered only in Santiago. Examines historical/intellectual/ material processes that transformed nature into natural resources to be exploited; ways global political process has guided global responses to environmental problems; Chilean environmental policy over the last 20 years.

GEO 538 Research on Europe 1-3 IR

Reading and special work. R

GEO 540 Research on Southern and Eastern Asia 1-3 IR

Reading and special work. R

GEO 550 Research on Physical Geography 1-3 IR

Reading and special work. R

GEO 555 Biogeography 3 E

Exploration of the environmental factors that influence the distribution of organisms. Emphasis is on plant distributions and dynamics, and consideration includes both natural and human factors. PREREQ: GEO 155.

GEO 558 Development and Sustainability 3 Y

Critical analysis of international development and sustainability. Focuses on the complex political, economic, cultural, and ecological processes involved in development discourse and practice. Readings and case studies drawn from Latin America, Africa, and Asia.

GEO 560 Research: Economic Geography 1-3 IR

Reading and special work. R

GEO 561 Global Economic Geography 3 IR

Globalization, world economic processes, international development, and policy issues; emphasizing geographical perspectives.

GEO 563 The Urban Condition 3 Y

Contemporary cities. Economic growth and decline. Social polarization. Construction of the built environment. Case studies from around the world.

GEO 564 Urban Historical Geography 3 O

Cities in western civilization through classical, medieval, mercantile, and industrial eras to 1945. Historical geographic meanings of urbanism; social construction of the built environment; and relationships between power, social justice, and urban spatial form.

GEO 570 Research on Cultural Geography 1-3 IR

Reading and special work. R

GEO 572 Landscape Interpretation in Cultural Geography 3 SI

Contemporary theories and methods. Traditional, historical-materialist, postmodernism, and post-structuralist approaches to landscape. Additional work required of graduate students.

GEO 573 The Geography of Capital 3 O

In-depth reading of Marx's Capital to understand: (a) the relationship between political economy and the geographical landscape; (b) the formative role of "Capital" in contemporary geographic theory.

GEO 576 Gender, Place, and Space 3 IR

Crosslisted with: WGS 576

Contemporary debates in feminist geography on the gendered construction of space and the spatial construction of gender.

GEO 580 Research on Cartographic Techniques 1-12 IR

Reading and special work. R

GEO 583 Environmental Geographical Information Science 3 Y

Data types, collection techniques, and processing strategies in natural resource survey. Monitoring and environmental sciences. Basic concepts of GIS data structures and algorithms. Data quality issues. User requirements, management aspects, and implementation experience. PREREQ: GEO 383.

GEO 595 Geography and the Internet 3 Y

An introduction to the structure and functions of the Internet and its impact on spatial relations from the global to the local. A detailed examination of the World Wide Web and practical training in web page design.

German

GER 101 German I 4 Y

Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in German. No prior experience or admission by placement testing.

GER 102 German II 4 Y

Continuing proficiency-based course which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts. Activities are conducted in German. PREREQ: GER 101.

GER 201 German III 4 Y

Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in German. PREREQ: GER 102.

GER 202 German IV 4 Y

Continuing proficiency-based course which focuses on reading, discussing, and analyzing authentic texts as a basis for the expression and interpretation of meaning. Conducted in German. PREREQ: GER 201.

GER 306 German Composition and Conversation 3 Y

Provides increasing facility in idiomatic use of spoken and written language. PREREQ: GER 202.

GER 356 German Culture and Civilization 3 Y

Area survey of social and cultural phenomena: literature, philosophy, music, and art. Practice in speaking, composition, and aural comprehension.

PREREQ: GER 203, 306.

GER 357 Contemporary German Culture and Civilization 3 Y

Survey and analysis of developments in the arts and literatures and in the political, educational, and social systems in the G.D.R. and the F.R.G. since 1945.

PREREQ: GER 202, 306.

GER 365 Nineteenth-Century Prose 3

The rise of realism as manifested particularly in the years 1830-1880. Lectures, discussion, short papers. Offered alternate years.

PREREQ: GER 202.

GER 366 Nineteenth-Century Drama 3

Drama and dramatic theory between 1830 and 1880. Leading works by Büchner, Hebbel, Wagner, Grillparzer. Lectures, discussion, short papers. Offered alternate years.

PREREQ: GER 202.

GER 367 German Lyrics and Ballads 3

Offered alternate years.

PREREQ: GER 202.

GER 376 Classicism and Romanticism 3

Literary works and criticism of later Goethe and Schiller. The writings of such Romantic authors as the Schlegels, Tieck, Novalis, E.T.A. Hoffmann. Lectures, discussion, short papers. Offered alternate years.

PREREQ: GER 202.

GER 377 Literature from 1880 to the Close of World War II 3

Important writers of prose, drama, and lyric between 1880 and 1945. Schnitzler, Hofmannsthal, Kafka, Hesse, Mann, Brecht. Lectures, discussion, short papers. Offered alternate years.

PREREQ: GER 202.

GER 378 German Literature Since World War II 3

Important poets, dramatists, and prose writers after 1945. Includes Böll, Grass, Frisch, Durrenmatt. Lectures, discussion, short papers. Offered alternate years.

GER 379 German and Austrian Cinema 3 IR

Explores and analyzes early and modern German and Austrian films. Conducted in German. The content of the course varies from semester to semester. Lecture, discussion for each film

PREREQ: GER 202. R1, 6 credits maximum

Greek

GRE 101 Ancient Greek I 4 Y

Introductory course which prepares students to acquire a reading knowledge of Classical Attic Greek, focusing on morphology and syntax, and its role in the culture and literature of ancient Greek society. No prior experience or admission by placement testing.

GRE 102 Ancient Greek II 4 Y

Continuing course with emphasis on morphology and syntax. Introduction to examples of unsimplified Ancient Greek prose of the classical period, read and interpreted within the cultural context of ancient Greek society.

PREREQ: GRE 101.

GRE 201 Ancient Greek III 4 Y

Continuing course with review of morphology and syntax and further study of idioms, rhetorical figures, and syntactic peculiarities. Reading and study of representative prose authors.

PREREQ: GRE 102.

GRE 310 Greek Prose Authors 3

Readings from selected ancient Greek prose authors. Review of grammar and syntax.

PREREQ: GRE 201. R2, 9 credits maximum

GRE 320 Readings from Greek Poets 3

Readings from selected ancient Greek poets. Review of grammar and syntax. Greek metrics and prosody. R2, 9 credits maximum

GRE 500 Greek Prose Authors 1-3 SI

Readings from selected Greek prose authors. R

Hebrew

HEB 101 Hebrew I 4 Y

Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Hebrew. No prior experience or admission by placement testing.

HEB 102 Hebrew II 4 Y

Continuing proficiency-based course which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts. Activities are conducted in Hebrew.

PREREQ: HEB 101.

HEB 201 Hebrew III 4 Y

Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Hebrew.

PREREQ: HEB 102.

HEB 202 Hebrew IV 4 Y

Continuing proficiency-based course which further refines and expands linguistic skills in culturally authentic contexts. Incorporates reading, discussing, and analyzing texts as a basis for the expression and interpretation of meaning. Conducted in Hebrew.

PREREQ: HEB 201.

HEB 301 Advanced Hebrew I 3 O

Crosslisted with: JSP 301

Hebrew literature in the original, ranging from the Bible to contemporary fiction, including 19th-century works such as Hasidic tales and Enlightenment satires. R1, 6 credits maximum

HEB 303 Advanced Hebrew II 3 O

Crosslisted with: JSP 303

Continuation of HEB/JSP 301, using more advanced texts

HEB 480 International Course 1-12 IR

Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the S.U. academic department to assign the appropriate course level, title, and grade for the student's transcript. R

Hindi

HIN 101 Hindi/Urdu I 4 Y

Crosslisted with: SAS 101

Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Hindi/Urdu.

HIN 102 Hindi/Urdu II 4 Y

Crosslisted with: SAS 102

Continuing proficiency-based course which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts. Activities are conducted in Hindi/Urdu.

PREREQ: HIN 101.

HIN 201 Hindi/Urdu III 4 Y

Crosslisted with: SAS 201

Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Hindi/Urdu.

PREREQ: HIN 102.

HIN 202 Hindi/Urdu IV 4 Y

Crosslisted with: SAS 202

Continuing proficiency-based course which further refines and expands linguistic skills in culturally authentic contexts. Incorporates reading, discussing, and analyzing texts as a basis for the expression and interpretation of meaning. Conducted in Hindi/Urdu.

PREREQ: HIN 201.

History

HST 101 American History to 1865 3 Y

Founding and development of institutions. The Revolution and the new nation. Problems of growth and sectionalism. Challenge to the union.

HST 102 American History Since 1865 3 Y

Reconstruction. Industrialization and its effects. Emergence as a world power. Economic and social problems, reforms. Global war and global responsibilities.

HST 109 American Political Culture (Honors) 3 IR

Shaping of American politics and political institutions by economic, social, demographic, and diplomatic factors: 1607 to 1789, Americanization of European institutions; 1789 to 1898, democratization and the challenge of urbanization and industrialization; 1898 to present, toward a postindustrial order.

HST 111 Early Modern Europe, 1350-1815
3 Y

Major characteristics of European political, social, and cultural life from Middle Ages to advent of democratic revolutions.

HST 112 Modern Europe: Napoleon to the Present 3 Y

European lives and experiences in the age of industrialization, urbanization, and mass politics. World wars, fascism, the Russian Revolution, empires, Europe in the post-World War II era.

HST 145 Introduction to Historical Archaeology 3 Y

Crosslisted with: ANT 145

Role of history and archaeology in our understanding of 17th- to 19th-century Europe, Africa, and America. Historical archeology as a mechanism to critique perceptions of the past. Firsthand record of ethnic groups and cultural settings not recorded in writing.

HST 180 International Course 1-6

Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the S.U. academic department to assign the appropriate course level, title, and grade for the student's transcript. R

HST 200 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

HST 201 Research Seminar in History 3 IR

Introduction to the excitement and techniques of original research. Each seminar begins with introductory readings in a particular area of history; each student researches a question in original sources and presents the results in one or more essays.

HST 210 The Ancient World 3 Y

The Ancient Mediterranean emphasizing major political, cultural, religious, and social developments. The Near East, Classical Greece, Hellenistic Civilization, Roman Republic, Roman Empire up to the fourth century A.D. May not be repeated for credit.

HST 211 Medieval and Renaissance Europe 3 Y

Origins of the state and modern economic and social structures from the ninth to the 16th century.

HST 212 Religion in Medieval and Reformation Europe 3 Y

History of both popular and official religions in Europe from age of Charlemagne to dissolution of unity in the Reformation.

HST 215 Modern Business History 3 IR

History of the modern business firm in America, Europe, and Asia. General trends and specific firm histories from railroads, to automobiles, to big business in wartime, to computers.

HST 221 Social History of American Education (Honors) 3 IR

Crosslisted with: CFE 221

History of educational goals, methods, and institutions throughout changes in population, economy, and social order. Social and economic consequences of Americans' educational choices. Part of liberal arts cluster for lower-division honors students.

HST 222 History of American Sexuality 3 Y

Examines sexuality in America from the colonial period to the present, exploring how American views of sex and desire have changed over time.

HST 231 English History 3 IR

Britain from the Roman occupation through the Revolution of 1688.

HST 232 English History 3 IR

Continuation of HST 231 from 1688.

HST 270 Experience Credit 1-6 Y

Participation in a discipline or subject related experience. Student must be evaluated by written or oral reports or an examination. Permission in advance with the consent of the department chairperson, instructor, and dean. Limited to those in good academic standing. R

HST 280 International Course 1-12 Y

Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the S.U. academic department to assign the appropriate course level, title, and grade for the student's transcript. R

HST 290 Independent Study 1-6 Y

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

HST 295 The Development of Air Power: First 50 Years 0-1 Y

Crosslisted with: ASC 295

Factors contributing to change in the nature of military conflict, the development of air power from its earliest beginnings, and the way air-power doctrine has evolved.

HST 296 The Development of Air Power: 1947 to the Present 0-1 Y

Crosslisted with: ASC 296

The development of air power from the end of World War II to the present. How air power is used in support of both military and nonmilitary national objectives.

HST 300 Selected Topics 1-3 Y

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

HST 302 Early American History 3 IR

European invasion of America. Native American resistance. Institutions of conquest, colonization, and empire. Anglicization of the colonists and the acculturation of the Iroquois. Servitude, slavery, and the family.

HST 303 The Age of the American Revolution 3 IR

Provincial America, its peoples, and their societies. Imperial war and administration. Anglo-American politics and dissent. The war of national liberation. Confederation; formation of the Constitution.

HST 304 Age of Jefferson and Jackson 3 Y

Development of political parties and institutions from 1789 to 1850. Impact of major figures, such as Jefferson and Jackson. Social and economic factors.

HST 305 America in Crisis: The Civil War and Reconstruction 3 Y

Coming of the Civil War, leading figures in the crises, and problems of reconstructing the divided nation.

HST 307 The United States in the Modern Age, 1917-1963 3 IR

World War I. Social/political development in the twenties. Impact of the Depression. Roosevelt and the New Deal. World War II. Cold War, McCarthyism, private culture of the fifties, emergence of the Civil Rights movement.

HST 308 Recent History of the United States, 1963-Present 3 Y

The Great Society. Domestic ferment in the sixties. Vietnam. Watergate. Economic defeats of the seventies and eighties. Ronald Reagan's America. The politics of the nineties and the shaping of new prosperity.

HST 309 Lawmakers and Lawbreakers: Crime and Punishment in Britain 3

A social, cultural and economic analysis of criminality in England over the last 700 years; how it was perceived, defined and penalized, and how crime was construed in different ways depending on changing conditions. Offered in London only.

HST 310 The Early Middle Ages 3 IR

History of Western Europe from c. 300 to c. 850. Political, religious, cultural, social, and economic developments. Special emphasis on reading and analyzing primary sources.

HST 311 Medieval Civilization 3 Y

Political, economic, religious, cultural history of Europe 800-1200, including the fall and rise of royal authority, disagreements over the roles of church and king, economic change, developing ideas and technologies, the rise of cities.

HST 312 Reformation of the 16th Century 3 IR

Protestant and Catholic Reformations. French Civil Wars, social foundations of modern religious denominations, and his-torical psychology of religious conversion experiences.

HST 313 French Revolution: Sun King to Guillotine 3 Y

How the Europe of Bach, Mozart, Voltaire, and Frederick the Great became the Europe of Beethoven, Goethe, the French Revolution, and Napoleon.

HST 314 Europe from Bismarck to the First World War 3 IR

Domestic development and foreign relations of major European states. Industrialization, urbanization, emergence of mass political parties, socialism and class conflict, social reform, growth of nationalist loyalties, imperialism, causes of World War I.

HST 315 Europe in the Age of Hitler and Stalin 3 Y

World War I as the great divide. Why fascism, crisis for democracies, Soviet dictatorship and its impact on Europeans, and World War II emerged one generation later.

HST 316 Europe Since 1945 3 IR

History of Europe from the fall of the Nazi-led 'New Order' to the present. Cold War in East/West Europe, economic growth/social change, decolonization, welfare state, fall of Communism, European Union, and contemporary Europe.

HST 318 Introduction to the Middle East 3 IR

Crosslisted with: MES 318
Beginning with the rise and spread of Islam through the reform era of the nineteenth-century, this course focuses on the social and cultural history of the Ottoman Empire.

HST 319 The Middle East in the 20th Century 3 IR

Crosslisted with: MES 319
Social and cultural history of the Middle East in the twentieth-century, including themes such as colonialism, anti-colonial nationalism, modernity, social movements, women and gender, and contemporary issues.

HST 320 Traditional China 3 IR

Political, economic, social and cultural history before 1650. Emphasis on sources of change and stability. Main themes: Confucianism, Buddhism, and Daoism; invasion and rebellion: conquest and consolidation. May not be repeated for credit.

HST 321 Modern China 3 Y

Political, economic, social and cultural history since 1650. Main themes: Social change in city and countryside, impact of Western nations, enduring legacies of traditional China.

HST 322 Colonial Latin America 3 Y

Crosslisted with: LAS 322, SPA 325
Development of Amer-Indian civilization and the Spanish conquests. Evolution of the Spanish American economy and the unique American culture. Growth of the plantation economy of Brazil. The movements toward independence.
PREREQ: SPA 202.

HST 323 Modern Latin America 3 Y

Crosslisted with: LAS 313
The turmoil of the postindependence period and the search for economic and political stability. Reasons for and consequences of export-led growth. The role of the United States in preserving the status quo in the Americas.

HST 324 Recent Latin American History 3 IR

Crosslisted with: LAS 324
Developments since World War I. Political, economic, and social change and growth of nationalism.

HST 325 Africa to 1800 3 IR

Crosslisted with: AAS 325
The first half of a two semester survey focusing on the evolution of African cultures and civilization in the traditional period. Topics: the emergence of man, migration of peoples, economic and social systems, state formation, the slave trade. Arabic influences and the early European settlement in South Africa.

HST 326 Africa Since 1800 3 IR

Crosslisted with: AAS 326
Second half of the survey, studying Africa when it was affected by European peoples and cultures. Topics: penetration by European explorers and missionaries, imperialism and colonialism, African resistance and rebellion, nationalism and liberation, neocolonialism and other problems of independence. AAS/HST 325 is not a prerequisite.

HST 327 A History of Southern Africa 3 IR

Begins before arrival of Europeans in southern Africa. Economic, geographic, sociological, and political factors contributing to development of this unique, racially based modern state. Includes Afrikaaner diaspora, Euro-African conflict during the nineteenth century, Anglo-Boer War, from union to apartheid, and resistance to European domination.

HST 328 Ancient and Medieval India 3 IR

Crosslisted with: SAS 328
Formation of traditional Indian kinship, religion, philosophy, and culture. Vedic society and the rise of Buddhism. Medieval Hindu kingdoms. Expansion and the legacy of Islam. Rise and disintegration of the Mughal empire.

HST 329 Making of Modern India 3 Y

Crosslisted with: SAS 329
British colonial expansion in India. Emergence of nationalism and related movements of religious, social, and cultural reform. Gandhi and non-violence. Struggle for independence and the politics of gender, class, caste, and religious community.

HST 330 The Iroquois 3 IR

The People of the Longhouse, the Five (afterwards Six) Nations, their archaeology, tradition, and history, from 1100 to 1815. May not be repeated for credit.

HST 332 African American History: Through the 19th Century 3 Y

Crosslisted with: AAS 332
Cultural, economic, political, and social developments shaping experiences of North Americans of African descent. Foundations of collective identity and diversity. African American historiography. Interpretive and methodological issues in historical practice.

HST 333 African American History: After the 19th Century 3 Y

Crosslisted with: AAS 333
Continuation of AAS/HST 332.

HST 334 Social and Cultural History of the United States 3 IR

Social and cultural developments, 1607-1861. American population growth, rural and urban life, religion, education and learning, literature and the arts.

HST 335 American Social and Cultural History 3 IR

Crosslisted with: WGS 335
Nature of "American character" through the last century. Aspects of intellectual life, social mores, industry, and art that represent Americans' definitions of themselves and their nation.

HST 336 United States in World Politics to 1914 3 IR

American diplomacy to 1914.

HST 337 United States in World Politics Since 1914 3 IR

American diplomacy from 1914 to the present.

HST 338 History of the Southern United States to 1865 3 E

Development of Old South society, economy, culture, and politics through readings, lectures, and discussions. First part of two-course survey of Southern United States.

HST 339 History of the Southern United States Since 1865 3 E

Development of southern society, economy, culture, and politics after the Civil War. Readings, lectures, and discussions. Second part of a two-course survey of the Southern United States.

HST 340 Women in America: 17th Century to the Civil War 3 Y

Crosslisted with: WGS 342
Focus on significant social and political transformation, activism, and individuals

HST 341 The Modern American Presidency 3 Y

Crosslisted with: PSC 329
Evolution, operation, and perceptions of the American presidency during the last quarter-century. Modern chief executives and factors contributing to their success or failure.

HST 342 Modern American Political Thought 3 IR

Crosslisted with: PSC 327

American political thought from the impact of Darwinian science to the present. Basic thought patterns of 20th-century public life and philosophical foundations of contemporary political movements.

HST 343 History of New York State 3 IR

New York's development since 1850, with special attention to the industrial order on its society, government, politics, and social thinking. Primarily for prospective teachers.

HST 345 Workers and Organized Labor in U.S. History, 1840 to Present 3 IR

The history of American workers and their efforts at protesting the transformation of the U.S. economy. The Knights of Labor, the A.F.L., the I.W.O., and the C.I.O. Forms of dissent: culture, violence, and radicalism law.

HST 346 The Idea of Opportunity in America 1890-1940 3 IR

Diverse contemporary perspectives on American opportunity - and its limits - from the closing of the frontier through the Great Depression. Tensions and possibilities resulting from urbanization, immigration, technological advances, persistent conservatism, reform, and radical impulses.

HST 347 Twentieth-Century U.S. Politics in Fiction 3 IR

The political culture of the 20th-century U.S. through the medium of popular fiction. Writing-intensive and discussion-based class, with enrollment limited to 20 students.

HST 349 Women in America: Civil War to Present 3 Y

Crosslisted with: WGS 349

Focus on significant social and political transformation, activism, and individuals.

HST 352 History of Ancient Greece 3 Y

Ancient Greek political, economic, social, and cultural history based on interpretation of primary sources, both literary and archaeological, from the Bronze Age through Alexander the Great.

HST 353 History of Ancient Rome 3 Y

Ancient Roman political, economic, social, and cultural history based on interpretation of primary sources, both literary and archaeological, from the foundation of the city to the dissolution of the Empire in the west.

HST 354 Decline and Fall of the Roman Empire 3 Y

The late Roman Empire and the Mediterranean world from c.200 to c.700. Political, religious, cultural, social history. Rise of Christianity, transformation of classical culture, and the so-called Decline and Fall of Rome.

HST 355 The Italian Renaissance 3 Y

Renaissance in Italy, between 1330 and 1500. Political, economic, and intellectual developments. Also offered regularly abroad.

HST 356 Italy Since 1600 3 IR

History of Italy from the end of the Renaissance to the present. Struggle for unification, rise of fascism, and transformations of postwar Italy.

HST 357 Culture and Politics in Early Modern England: From Henry VIII to Elizabeth I 3 Y

Renaissance and Reformation in 16th-century England. Transformation of politics, culture, and society from the Wars of the Roses through the reign of Elizabeth, 1485-1603. Also offered regularly abroad.

HST 358 Revolution and Reaction in 17th-Century England 3 Y

Emergence of modern England, 1603-1714. Triumph of parliamentary institutions, development of capitalism, and beginning of the empire. Intellectual and cultural change: transition from religious controversy to the age of reason.

HST 359 Modern Britain 1850 to the Present 3 IR

Political, cultural, and intellectual history of Britain from 1850. Considers the idea of Britishness as national identity, cultural construct, or imperial discourse. Questions the meaning of modernity as a model for change.

HST 360 France Since 1870 3 IR

Political turbulence as the legacy of revolution and empire. Lushness and crisis. Peasants, workers, city people, army officers, psychiatrists, and priests. France in the age of total war. May not be repeated for credit.

HST 361 Germany to World War I, 1770-1918 3-4 IR

Causes and consequences of the first unification of Germany: Authoritarian and military characteristics of Prussia. Its response to modern challenges. Bismarck's unification of Germany under Prussia. Strengths and weaknesses of the new German Empire. Overthrow in 1918.

HST 362 Nazi Germany, 1933-1945 3-4 Y

Rise of Hitler and growth of the Nazi party. Construction of a dictatorship after 1933, changes in the everyday life of the Germans, Hitler's diplomacy and war, the Holocaust.

HST 364 The Origins of Modern Russia 3-4 IR

Russian history from Muscovy to the Revolution of 1905, with an emphasis on political institutions, the stratification of society, and the growth of the intelligentsia.

HST 365 Russia in the Twentieth Century 3-4 IR

A survey of Russian history from the Revolution of 1905 to the present, including WW I and revolutions of 1917, Leninism, Stalinism and the collapse of the USSR.

HST 367 Plague in European Society 3 Y

Social, economic, and cultural impact of plague from antiquity to the eighteenth century. The Black Death. History of diagnosis, treatment, and prevention of plague.

HST 368 Islam and the West 3

Crosslisted with: MES 368, PSC 368

Topics include globalization and interdependency of faiths, the "clash of civilizations", relations between religion and state in Islam and Christianity and whether it is possible to separate the world into monolithic entities "Islam" and "West". Offered in London only.

HST 369 The World at War: 1914-1918, 1939-1945 3 Y

Major developments in military history of World War I and World War II. Film as one tool for understanding nature and scope of conflicts that changed the world.

HST 371 Gender in Latin American History 3 Y

Crosslisted with: LAS 371, WGS 371

History of women and gender relations from colonial period to the present. Influence of race, class, and ethnicity on gender. Relation of gender to labor, family, sexuality, and politics.

HST 372 Race in Latin America 3 IR

Crosslisted with: LAS 372, NAT 372

Race relations in Latin America from the late colonial era to present. Indigenous, immigrant, and Afro-Latin American experiences and how they have changed over time. Relations of race to national identity.

HST 375 British Empire 3 IR

Crosslisted with: SAS 375

Seminar on expansion of the British Empire (emphasis on India and Africa) in the 18th and 19th centuries. Explores histories of conquest, administration and imperial policy, and the ideologies of imperialism and colonialism.

HST 376 Renaissance London (Honors) 4

History and development of London in the 16th and 17th centuries. Topics include the visual arts; cultural, economic, and social change; literature and the theater; crime; architecture; and royal politics and government.

HST 377 History of Venice 3 Y

History of the city of Venice from its origins to the present. Considers Venice as an independent republic and imperial power and its significance in the Western imagination.

HST 378 Early Modern Mediterranean 3 Y

Focus on Ottomans, Italy, France, Iberia, North Africa, 1348-1789. Topics include international relations and empire-building in Africa, Asia, and Europe; commerce, piracy, plague, religion, family/sexuality, architecture, political and cultural developments during Renaissance, Age of Discovery Enlightenment.

HST 379 Gender and Colonialism 3 IR

Crosslisted with: WGS 379

Explores the intersection of gender and race in colonial ideologies, imperial practices and anti-colonial nationalist movements, in the 18th and 19th centuries.

HST 380 International Course 1-12

Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the S.U. academic department to assign the appropriate course level, title, and grade for the student's transcript. R

HST 383 Foundations of American Political Thought 3 IR

Crosslisted with: PSC 326

American political thought from the Puritans to Lincoln. American Revolution, establishment of the Constitution, and Jeffersonian and Hamiltonian systems.

HST 384 American Environmental History and Geography 3

Crosslisted with: GEO 354

Relationship between Americans and the natural environment from the colonial period to the present. Ecological imperialism, technology and nature, resource management conflicts, urban environments, development of conservation and environmentalism.

HST 385 United States Legal History, 1620 to Present 3 IR

The role of law in American history from the colonial period to the present. The common law, the Constitution, the market revolution, slavery and emancipation, laissez-faire, legal realism, the New Deal, and civil rights.

HST 386 Crime and Society in American History, 1620 to Present 3 IR

The history of American deviance and dissent from colonial Massachusetts to the present. Social transformation and the rise of urban crime. The changing role of the state. Police, radicalism, alcohol, vice, sexuality, and organized crime.

HST 387 Women, Abolition, and Religion in 19th Century America 3

Crosslisted with: REL 341, WGS 341

The role that religion may have played in women's understandings of themselves as abolitionists and social reformers. A selected group of women will be studied, with considerable attention given to Frances Harper.

HST 388 Vietnam: Movies, Memoirs and the Shaping of Public Memory 3 IR

An exploration of Vietnam in public memory through film and personal memoirs.

HST 389 LGBT Experience in American History 3

Crosslisted with: QXS 389, WGS 389

The history of lesbian, gay, bisexual, transgender experience in American history. Effective spring 2007.

HST 390 Independent Study 1-6 SI

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

HST 391 Mary Magdalene: History of a Legend 3 IR

Examines legends surrounding Mary Magdalene, from New Testament to Da Vinci Code. Uses diverse primary sources and scholarship; traces the legend's evolution and examines its changing significance.

HST 392 History of the Holocaust 3 Y

Crosslisted with: JSP 392

Study of the events and issues of historical interpretation in the Holocaust, 1933-1945. Attitudes and behavior of Nazi perpetrators, Jewish victims, and bystanders.

HST 393 East Asia and the Socialist Experience 3 Y

Examines the adoption of socialism in East Asia. Historical account of how socialist China, Mongolia, North Korea and Vietnam arose, developed, "failed" and responded to globalization in the 20th century.

HST 395 Modern Japan 3 O

Examines Japanese society from early-modern times (1600-1868) through modern (1868-1945) and postwar Japan (1945-today). Topics include: urbanization, mass culture and nationalism, popular protest, imperialism and empire, gender, war and occupation and globalization.

HST 396 Women and the American Frontier 3 Y

Crosslisted with: WGS 396

The North American frontier, from the 17th to the early 20th century, as it was experienced by women of various cultural and national origins.

HST 397 Modern Korea 3 E

Examines political, economic and social history from 1860 until today. Topics include: colonialism, modernity, division, the Korean War, nation-building, nationalism, democratization, North Korean society, inter-Korean affairs, nuclear issues, Korean Diaspora and "Korea Wave."

HST 398 Saints and Sinners in the Middle Ages 3 Y

Investigates notions of sanctity and modes to impose morality and social discipline in the medieval period. Reading narrative texts (esp. saints lives and literary texts) as historical sources. First offered in Spring 2011

HST 399 Utopia and Institution: Early Monasticism 3 Y

Investigates the rise of monasticism in the West as a case study on institution forming and the attempts to organize perfect life in a community..

HST 400 Selected Topics 1-3 Y

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

HST 401 Senior Seminar 3 Y

Research techniques in the use of source material and historical evidence. Preparation of original research paper. Satisfies research requirement for history majors and minors.

HST 402 Slavery and Abolition 3 Y

Crosslisted with: AAS 402

Evolution and diverse character of North American slavery and antislavery. Slavery as labor, legal, and property system, cultural and political phenomenon, and social and economic network. Politics and ethics of abolition.

HST 404 Family and Gender in Renaissance Italy 3

Crosslisted with: ANT 404, WGS 404

Historical and interdisciplinary exploration of life stages, rites of passage, marriage, family, social life, sodomy, prostitution, career options, and alternate life strategies as illustrated by case studies. Offered only in Florence.

HST 405 History of American Popular Culture 3 IR

Exploration of the history of American popular culture and the use of popular culture to study history.

HST 408 The Practice of Eros: A History of Sexuality in Europe (1400-1800) 3

Crosslisted with: ANT 408, WGS 408

Authorized and "alternative" sexuality in Europe 15th to 18th centuries (especially Italy, France, and England.) "Licit love" (courtship, marriage, conjugal relations) as opposed to "illicit unions" (adultery, rape, prostitution, bestiality, homosexuality, lesbianism). Offered only in Florence.

HST 409 A History of Witchcraft 3

Crosslisted with: ANT 409, REL 409, WGS 409

History of witchcraft from various perspectives: its intellectual roots, the causes and dynamics of the witch-hunt, and the beliefs and self-perceptions of those who were called "witches". Offered only in Florence.

HST 410 Science and Technology in the Modern World 3

Crosslisted with: STS 410

Interaction of science with technology from 1700 to the present. Technological artifacts and their scientific background. Development of new technology from scientific research and from old-fashioned dreaming and tinkering.

HST 424 Dictatorships, Human Rights, and Historical Memory in the Southern Cone 3 S

Crosslisted with: IRP 424, LAS 424, PSC 424

Offered only in Santiago. The time period (1940-present) and its significance and contributions to the configuration of social, political and economic aspects of Chile today. Relies on primary sources, comparisons within the Southern Cone, and a focus on US role and influence during this period.

HST 434 Underground Railroad 3 SI
Crosslisted with: AAS 434, ANT 494; Double
Numbered with: HST 634
Myth and history of the Underground in the
context of African American freedom efforts.
Emphasis on events, personalities, and sites in
upstate New York. Student field research and
exploration of archival and Internet resources.
Additional work required of graduate students.

**HST 447 France from the Revolution to
the Great War 3 Y**
Crosslisted with: FRE 447
Study of the rise of the French Republic, its
revolutions, and its recurrent lapses into
authoritarian rule, notably under Napoleon I
and III. Conducted in French. Offered in
Strasbourg only. [Effective spring 2009]

**HST 449 France from the Treaty of
Versailles to European Integration 3 Y**
Crosslisted with: FRE 449
Analysis of major events in recent French
history, including the rise of the Popular
Front, the Nazi Occupation, the end of
colonial rule, and the process of European
integration. conducted in French. Offered in
Strasbourg only. [Effective spring 2009]

**HST 451 Visual Culture Past and
Present: Gender, Religion and Politics 3**
Crosslisted with: CRS 451, REL 451, WGS 451
Offered only in Florence. Contemporary
visual culture; its representation of gender,
religion, and politics and the origins of that
representation in a pictorial language first
codified in Italy and Europe between circa
1450 and 1650.

HST 452 Italy Since 1870 3
Italian history, 1870 to present: political
unification and development of national
culture; facism; WW II; Cold War; North-
South divide and "economic miracle;" "La
dolce vita" and myth of America; Mafia;
1960s youth culture; 1970s terrorism; 1980s
political crisis. Offered only in Florence.

HST 453 Twentieth Century Europe 3
Crosslisted with: PSC 453
Politics, society, war, and peace in Europe,
1919-1992. Nazi Germany, WW II, the Cold
War, post-war reconstruction, social and
economic transformations, and the
revolutions of 1989 in Eastern Europe.
Offered only in Florence.

**HST 454 Family and Gender in
Contemporary Italy 3 IR**
Crosslisted with: SOC 454, WGS 454
Family structures and gender relations in Italy
from the Unification to the present. Offered
only in Florence.

**HST 457 Gender, Politics, Society in
Europe (1400-1800) 3 IR**
Crosslisted with: SOC 457, WGS 457
Relationship between the sexes in politics,
philosophy, literature, and art. Emergence of a
dissident "voice" relative to gender identity
and social role, with implications for race and
religion. Offered only in Florence.

HST 470 Experience Credit 1-6
Participation in a discipline or subject related
experience. Student must be evaluated by
written or oral reports or an examination.
Permission in advance with the consent of the
department chairperson, instructor, and dean.
Limited to those in good academic standing. R

HST 480 International Course 1-12
Offered through SUAbroad by educational
institution outside the United States. Student
registers for the course at the foreign
institution and is graded according to that
institution's practice. SUAbroad works with
the S.U. academic department to assign the
appropriate course level, title, and grade for
the student's transcript. R

HST 490 Independent Study 1-6 S
In-depth exploration of a problem or
problems. Individual independent study upon a
plan submitted by the student. Admission by
consent of supervising instructor or
instructors and the department. R

HST 495 Distinction Thesis in History 3
Conducting research and writing a thesis for
departmental distinction in History under the
guidance of a faculty member.

HST 496 Distinction Thesis in History 3
Conducting research and writing a thesis for
departmental distinction in History under the
guidance of a faculty member.
PREREQ: HST 495.

HST 499 Honors in History 3-6 S

HST 500 Selected Topics 1-3 IR
Exploration of a topic (to be determined) not
covered by the standard curriculum but of
interest to faculty and students in a particular
semester. R

**HST 510 Studies in African American
History 3 IR**
Crosslisted with: AAS 510
Particular periods or aspects of African
American history. R

History Of Art

HOA 105 Arts and Ideas 3 Y
Visual arts in relation to broader cultural,
historical, and intellectual contexts. HOA 105
surveys the ancient world to the High
Renaissance. HOA 106 proceeds from the late
Renaissance to the present. Either course may
be taken first or independently.

HOA 106 Arts and Ideas 3 Y
Visual arts in relation to broader cultural,
historical, and intellectual contexts. FIA 105
surveys the ancient world to the High
Renaissance. FIA 106 proceeds from the late
Renaissance to the present. Either course may
be taken first or independently.

**HOA 200 Selected Topics in Arts and Ideas
1-3 IR**
Exploration of a topic (to be determined) not
covered by the standard curriculum but of
interest to faculty and students in a particular
semester. R

HOA 201 Masterpieces of Art 3 IR
Major works of painting, sculpture,
architecture, and decorative arts related by
theme, period, or country. Sometimes offered
abroad.

HOA 202 Arts of Italy 3 Y
Crosslisted with: HOM 202
Selected aspects, drawing on appropriate
resources in architecture, museums, and/or
musical performance in immediate
geographical area. Offered only in Strasbourg.
Specific topics determined each semester.

**HOA 203 Italian Arts from Antiquity to
Michelangelo 3 Y**
The visual arts in relation to broader cultural,
historical, intellectual contexts from ancient
times through the High Renaissance. Site visit
to Rome and selected "all-school" field trips.
Offered only in Florence.

**HOA 204 Italian Arts from the Medicis to
the Futurists 3 Y**
The visual arts in relation to broader cultural,
historical, intellectual contexts from the
Renaissance through the late 19th century.
Site visit to Rome and selected field trips.
Offered only in Florence.

**HOA 205 Italian Sculpture Interpreted 3
Y**
Masterpieces of Italian sculpture from
antiquity to present, including works by
Donatello, Michelangelo, Bernini, and
Canova. Lectures alternate with weekly site
visits. Trips to Carrara, Pisa, Verona, and
Rome. Offered only in Florence.

HOA 206 Arts of France 3 Y
Crosslisted with: HOM 206
Selected aspects, drawing on appropriate
resources in architecture, museums, and/or
musical performance in immediate
geographical area. Offered only in Strasbourg.
Specific topics determined each semester.

HOA 207 Arts of England 3 Y
Crosslisted with: HOM 207
Selected aspects, drawing on appropriate
resources in architecture, museums, and/or
musical performance in immediate
geographical area. Offered only in London.
Specific topics determined each semester.

**HOA 208 An Architectural History of
London 3 Y**
The growth of London from the Norman
Conquest to the present. Accent on important
architectural areas, including the Guildhall,
Westminster, Covent Garden, South Bank.
Offered only in London.

HOA 209 Arts of Spain 3 Y
Crosslisted with: HOM 209
Introduction to the art, architecture, music,
and dance of Spain. Museum, gallery, and site
visits. Concert, dance, and other
performances. Topics vary. Offered only in
Madrid.

HOA 276 Visual Arts in North America 3 E

The visual arts in North America (U.S., Canada, Mexico) from 1492 to the present, emphasizing diversity of makers and media, as well as exchanges among cultural traditions.

HOA 300 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

HOA 301 Origins of Western Art 3 IR

Development of art in Europe, the Near East, Egypt, and the Aegean to the close of the Bronze Age. Paleolithic painting and sculpture. Megalithic structures, rise of Egyptian civilization. Growth of Minoan and Mycenaean cultures.

HOA 302 Greek Art and Architecture 3 IR

Works of Greek art and architecture are examined in their historical, social, and cultural context. It covers from the Archaic to the Hellenistic Period.

HOA 303 Etruscans and Romans: Ancient Art and Society in Italy 3 Y

Crosslisted with: ANT 422
Explores art and society of ancient Italy from ca. 1000 B.C. to A.D. 138, with special emphasis on the early Etruscans through Rome under Hadrian. Requires previous course in art history. Offered only in Florence.

HOA 304 Roman Art & Architecture 3 IR

A history of Italian painting, architecture, and sculpture from the early Etruscans through that of Rome under Hadrian.
PREREQ: HOA 105.

HOA 311 Italian Medieval Art 3 IR

Arts of the Italian peninsula and Sicily during the Romanesque and Gothic periods; architecture, sculpture, mosaic, minor arts.
PREREQ: HOA 105.

HOA 312 Romanesque Art 3 O

Development of the arts of France, especially architecture and sculpture, during the eleventh and twelfth centuries.
PREREQ: HOA105.

HOA 313 Gothic Art 3 E

French arts from the beginning of the Gothic style through its maturity: architecture, sculpture, and stained glass.
PREREQ: HOA 105.

HOA 322 Early Renaissance Architecture in Italy 1400-1529 3 Y

Crosslisted with: ARC 335
Architectural theory and design in Italy, 1400-1520. Additional work required of graduate students.
PREREQ: ARC 133 OR 639.

HOA 323 Sixteenth Century Italian Architecture 3 Y

Crosslisted with: ARC 332
Major architects and theories of 16th-century architecture, emphasis on social and political background, patronage, and the education of the architect. Additional work required of graduate students.
PREREQ: ARC 133 OR 639.

HOA 324 Italian Seventeenth Century Architecture 3 Y

Crosslisted with: ARC 336
Complex and masterful accomplishments of individual architects within context of a mature architectural tradition and a particular social, economic, and religious milieu. Additional work required of graduate students.
PREREQ: ARC 133 OR 639.

HOA 340 Studies in Baroque Art 3 E

Rubens, Rembrandt, El Greco, Velázquez, Bernini, Caravaggio, and their contemporaries. Offered only in London.
PREREQ: HOA 106.

HOA 350 Art in Eighteenth Century Europe 3 IR

Work relating to profound cultural changes of the period. Watteau, Fragonard, Boucher, Chardin, Reynolds, Gainsborough, and Tiepolo.
PREREQ: HOA 106.

HOA 360 Art and Identity 3 SJ

Social and ethical dimension of art in our times and since the nineteenth century: art and the state, avant-garde traditions, public art battles, museum politics, representing gender, outsider art, ethnic expression.

HOA 365 Art in France from Impressionism to Surrealism 3

Crosslisted with: FRE 439
Focus on major painters who lived and worked in Paris from 1860 to 1945. Emphasis on analyzing and writing about painting. Field trip to Paris. Conducted in French. Offered in Strasbourg only. [Effective spring 2009]
PREREQ: FRE 300-LEVEL, 2 COURSES.

HOA 366 Nineteenth & Twentieth Century Italian Art 3 E

Development of Italian painting and sculpture from neoclassicism to the present. Offered only in Florence.
PREREQ: HOA 106.

HOA 371 Photography & the Fine Arts 3 O

Still photography as a means of pictorial expression in the fine arts from 1840 to the mid-20th century. Interrelationships among photography, painting, and other visual arts.
PREREQ: HOA 106.

HOA 372 The Business of Art 3 IR

Introduction to the practice and strategies of art as a tradable commodity. Topics include ethics of collecting, investment strategies, conservation and preservation of art, and art-related crime with its impact on the art market. Offered in London only.

HOA 374 American Architecture, Settlement to 1860 3 Y

Crosslisted with: ARC 337
American architectural history and theory from first settlements through federal and Georgian to various revival modes. Additional work required of graduate students.

HOA 375 American Architecture, 1860 - World War I 3 Y

Crosslisted with: ARC 338
American architectural history and theory from the Civil War through various revival modes to development of new commercial and residential forms before World War II. Additional work required of graduate students.

HOA 377 Nineteenth-Century American Art 3 E

The visual arts in the U.S. from the American Revolution to the Armory Show (1775-1913).
PREREQ: HOA 106 OR HOA 276.

HOA 378 Twentieth-Century American Art 3 O

The visual arts in the U.S. from the World's Columbian Exposition (1893) to the present.
PREREQ: HOA 106 OR HOA 276 OR HOA 377.

HOA 380 International Course 1-12

Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the S.U. academic department to assign the appropriate course level, title, and grade for the student's transcript.
PREREQ: ARC 134 OR CAS 134. R

HOA 386 Art of the Black World 3 Y

Crosslisted with: AAS 361
Arts of the African Diaspora. Emphasis on African American Art. Seventeenth century to present. Gender, socioeconomic, political and cultural contexts. Artistic implications of Black culture in comparative perspective with other artists and artistic movements.

HOA 387 Native North American Art 3 IR

Crosslisted with: NAT 346
Critical exploration of meanings, functions, techniques, and varieties of art in Native North American cultures, ancient to present. Attention to continuities, changes, and cultural exchanges: anthropological vs. art historical perspectives: limitations of term "art."

HOA 389 Islamic Architecture 3 IR

Crosslisted with: ARC 435
Major building traditions of Islam in the Middle East, North Africa, Spain, Turkey, and India elucidated through in-depth examination of major works and principles of architectural, urban, and garden design. Additional work required of graduate students.

HOA 391 Survey of Asian Art 3 E

Major masterpieces of Indian, Chinese, Korean, Japanese art and architecture from prehistoric times to the present. Influence of Asian art on modern artists in the West, including Chinoiserie and Japonisme. Comparison of Eastern/Western aesthetics also considered.

HOA 400 Selected Topics 1-6 Y

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

HOA 405 The Mediterranean City: Architecture, Ritual and Power 3 Y

Examines a series of ritual sites around the Mediterranean basin; architecture, choreography, politics, considering innovation and continuity in the design, use, and abuse of mass spectacle as a tool for social identity. Offered only in Florence.

HOA 410 Art and Ideology in Medieval Spain 3 IR

Examines works of art and architecture from Medieval Spain, within their multicultural Christian/Islamic/Jewish context. Emphasizing their ideological value as vehicles for identity, authority, and spiritual ideals. PREREQ: HOA 105.

HOA 411 The Black Death and Medieval Art: Catastrophes and Cultural Change 3 IR

Painting and sculpture from 1260 to 1380, the effects of the Bubonic Plague (1348) as manifested in art. Day trips to Padua and San Gimignano; site visits in Florence. Offered only in Florence. PREREQ: HOA 105.

HOA 412 The Gothic Spell 3 IR

Exploration of the definition, meaning, and appeal of the Gothic through the ages, Gothic being understood as an architectural language, a literary and film genre, and a Pop subculture.

HOA 413 Gothic Art in Italy 3 IR

Introduction of the Gothic style into Italy in the 12th and 13th centuries: architecture, monumental sculpture, and stained glass of the Cistercians, the mendicant orders, and the great civic cathedral projects. PREREQ: HOA 105.

HOA 419 The City in Architectural History 3 IR

Crosslisted with: ARC 432
A single city throughout its history, or various cities at a particular time in history. Additional work required of graduate students. Permission of instructor. Additional work required of graduate students. PREREQ: ARC 134 OR CAS 134.

HOA 420 Fifteenth-Century Italian Art: Inventing the Renaissance 3 IR

Explores the new developments in a 15th century Italian visual culture that became the defining characteristics of the early Renaissance period. Requires previous course in art history or one course in Renaissance history. Offered only in Florence.

HOA 421 Early Renaissance Art 3 E

Visual arts in Italy during the 14th and 15th centuries. Sometimes offered abroad. PREREQ: HOA 105.

HOA 422 High Renaissance Art/Mannerism 3 O

Origins of High Renaissance style in Florentine art of the late quattrocento: Leonardo, Michelangelo, Fra Bartolomeo, Roman High Renaissance style, Giorgione, and Titian. Concept of the maniera. Sometimes offered abroad. PREREQ: HOA 105.

HOA 423 Artistic Patronage of Medici 3 IR

How the Medici family used art and architecture to transform themselves from private bankers into Grand Dukes of Tuscany, in the process creating the monuments by which we define the Italian Renaissance. Offered only in Florence. PREREQ: HOA 105.

HOA 424 Sixteenth Century Italian Art and Identity 3 IR

Explores how, during the "High Renaissance", works of art were commissioned by patrons using art to create their own public identity. Focuses on paintings and sculpture. How artists defined themselves in relation to Leonardo and Michelangelo. Requires previous course in art history or in any aspect of Renaissance history or culture. Offered only in Florence. PREREQ: HOA 105.

HOA 425 Leonardo da Vinci: Artist and Engineer 4 O

Crosslisted with: ECS 441
Interdisciplinary exploration of the life and work of Leonardo da Vinci (1452-1519). Supplemented by required field trip to Europe. Special application required. PREREQ: FIA 105 OR.

HOA 426 Michelangelo' Italy 4 E

Exploration of the life and times of Michelangelo Buonarroti (1475-1564). Supplemented by required field trip to Italy. Special application required. PREREQ: HOA 105.

HOA 428 Research Problems in Italian Art 3 Y

Major decorative complexes in Italy from medieval, Renaissance, and baroque periods. Factors that affected their form. Architectural spaces in churches and palaces of Florence. Offered only in Florence. PREREQ: HOA 421 OR 422 OR 340.

HOA 430 Northern Renaissance Art: 15th Century 3 O

Northern European painting, sculpture, and printmaking from the international style in the fourteenth century to Hieronymus Bosch in the late 15th century. Art presented in historical, philosophical, and social contexts of the Northern humanist tradition. PREREQ: HOA 105.

HOA 431 Northern Renaissance Art: 16th Century 3 E

Northern European painting and printmaking of the sixteenth century, beginning with Albrecht Dürer and concluding with Pieter Breughel. Art presented in the context of protestant reformation and northern humanism. PREREQ: HOA 105.

HOA 439 French Architecture, Sixteenth and Seventeenth Centuries 3 IR

Crosslisted with: ARC 433
Architecture of the Renaissance transported from Italy to France and developed into a specifically French architecture. Outstanding achievements of more than local interest. Additional work required of graduate students. PREREQ: ARC 134 OR CAS 134.

HOA 440 Women in Art 3 IR

Crosslisted with: WGS 449
Representation of women in art from prehistoric to contemporary times and the works of women artists in historical contexts. PREREQ: HOA 105 OR 106 OR WGS 101.

HOA 445 Baroque Art in Southern Europe 3 O

Painting and sculpture in Italy and Spain during the 17th century; Caravaggio, the Carracci, Bernini, Poussin, Lorrain, and Velázquez. PREREQ: HOA 106.

HOA 446 Baroque Art in Northern Europe 3 E

Painting and sculpture in Belgium, Holland, and France during the seventeenth century; Rubens, VanDyck, Jordaens, Hals, Rembrandt, Vermeer, Ruisdael, the Le Nains, and Georges de la Tour. PREREQ: HOA 106.

HOA 447 Italian Baroque Art and Architecture 3 IR

Architecture, sculpture, painting, and decorative arts of the Italian Baroque: early, high, and late Baroque styles in Florence, Bologna, Rome, and Venice. Site visits in Florence and study tours of Bologna and Rome. Offered only in Florence. PREREQ: HOA 105 OR HOA 106.

HOA 457 Art and Revolution 3 Y

Revolution as a dominant cultural force in nineteenth century art. Topics chosen from romanticism and nature, revolutionary France, ideal vision, science and technology. Gothic revival, and impressionism and shaped around current major art exhibits. Offered only in London.

HOA 458 Art of Romanticism 3 IR

Revival movements, landscape painting, romanticism, and realism. Developments from David to Courbet. Sometimes offered abroad. PREREQ: HOA 105, HOA 106.

HOA 459 Realism to Symbolism: European Art, 1850-1900 3 IR

Modernism from the politics of Courbet and the revolutions of 1848 to Munch and social anxiety as the 19th century draws to a close. Realism, Impressionism, Post-Impressionism, Symbolism.
PREREQ: HOA 106.

HOA 461 Early 20Th Century Art 3 IR

Fauvism and expressionism to cubism and the development of abstraction. Matisse, Picasso, Brancusi, Mondrian, and Kandinsky.
PREREQ: HOA 106.

HOA 462 European Art Between the Wars 3 IR

Dada, Surrealism. The utopian movements of Russian Constructivism, the Bauhaus in Germany, and De Stijl in Holland. Movements in art between the wars in the context of political instability, revolution, utopian idealism, the machine aesthetic, and the developing history of the unconscious mind.
PREREQ: HOA 106.

HOA 463 Modernism & Postmodernism 3 Y

Trends in twentieth-century art, Postimpressionism, cubism, surrealism. Abstract expressionism. Postmodernism. Shaped around current major art exhibits. Offered only in London.

HOA 464 Modern Spanish Art 3 Y

Crosslisted with: SPA 464
Spanish art and architecture from the late eighteenth century to the present. Goya, succeeding styles and movements to the modernism of Picasso, Miro, and Dali, and later styles. The architecture of Gaudi. Offered only in Madrid.

HOA 470 Experience Credit 1-6 SI

Participation in a discipline or subject related experience. Student must be evaluated by written or oral reports or an examination. Permission in advance with the consent of the department chairperson, instructor, and dean. Limited to those in good academic standing. R

HOA 475 Modern Architecture: The International Style to Present 3 IR

Crosslisted with: ARC 436
Architecture of the modern period since World War II. Major works and figures as framed by the larger architectural issues of the period. Additional work required of graduate students.

HOA 479 Early Modern Architecture 3 IR

Crosslisted with: ARC 431
Early modern architecture from the 1890s through the 1930s. Additional work required of graduate students.
PREREQ: ARC 134 OR CAS 134.

HOA 482 Art and Environment in American Culture Since 1800 3 IR

Crosslisted with: GEO 347
Visual arts and environmental concern in the U.S. from the early national period to the present. Emphasizing diversity of artists and forms, the changing cultural constructions of nature, and tracing an ecological tradition in art.

HOA 490 Independent Study 1-6 SI

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

HOA 500 Selected Topics 1-3 S

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

HOA 510 Italian Medieval Architecture and Urbanism 3 IR

Crosslisted with: ARC 537
Investigates sites, buildings, and rituals of local identity in a range of centers including monasteries, castles, hilltowns, ports, republics, and tyrannies, between 300 and 1400. Trips to Umbria and Sicily. Offered only in Florence.
PREREQ: HOA 105.

HOA 520 Italian Urbanism: 100 Cities 3 IR

Crosslisted with: ARC 536
A survey of Italian urban history: design of cities, local rituals, politics, and patronage in ancient Rome, medieval Venice, Renaissance Florence, Baroque Turin, and modern Milan. Site visits in Florence and surrounding towns. Offered only in Florence.
PREREQ: HOA 105 OR HOA 106.

HOA 522 Botticelli: Analysis in Depth 3 IR

Botticelli within the socio-artistic context of 15th-century Florence. Portraiture, classical myths, civic propaganda, gender, and religious narrative. Offered only in Florence.
PREREQ: HOA 105.

HOA 530 History of Printmaking 3-4 IR

Fifteenth-century to present day woodcuts, engravings, etchings, aquatints, lithographs, and monotypes. Dürer, Rembrandt, Goya, Blake, Daumier, Whistler, and others.
PREREQ: HOA 106.

HOA 540 17th Century Dutch Painting 3-4 IR

Principal Dutch masters (Rembrandt, Hals, Vermeer, Ruisdael, etc.). Developments in landscape, genre, still life, portraiture, and history painting.
PREREQ: HOA 105, HOA 106.

HOA 541 Art and Ideas in the 17th Century 3-4 IR

Crosslisted with: HOM 541
A consideration of music, literature, and the visual arts in the context of 17th-century life. A study of the interrelationship of the main forces in society and their expression in the arts.
PREREQ: HOA 105, 106 OR HOM 165, 166.

HOA 556 Problems in Art History 3-4 Y

Selected period, major figure(s) or monument(s) in painting, sculpture, or architecture.
PREREQ: HOA 105, HOA 106. R3, 16 credits maximum

HOA 560 Arts and Ideas in the Nineteenth Century 3-4 IR

Crosslisted with: HOM 560
Music and the visual arts in 19th century European culture.
PREREQ: HOA 105, 106 OR HOM 165, 166.

HOA 571 Italian Architecture, 1909-1959 3 IR

Crosslisted with: ARC 539
Italian architecture from the birth of Futurism to the end of the post-WWII reconstruction. Representative structures in Milan, Rome, Como, and Florence. Includes overnight trip to Rome. Offered only in Florence.

HOA 575 Arts and Ideas in Contemporary Culture 3-4 IR

Crosslisted with: HOM 575
Place of music and the visual arts in the context of contemporary life. Inter-relationship between the main forces of society and their expression in the arts.

HOA 576 Topics in American Art 3-4 O

Critical exploration of an important American movement, theme, period, or artist. Emphasizing discussion and recent scholarship. Topic announced each semester.
PREREQ: HOA 106 OR HOA 276 OR HOA 300-LEVEL.

HOA 577 Introduction to Preservation 3 Y

Crosslisted with: ARC 566
Problems and methods in implementing continued use for quality segments of the humanly built environment.
PREREQ: ARC 134 OR CAS 134.

History Of Music

HOM 125 Introductory Music Theory 3 Y

Crosslisted with: MTC 125
Elementary harmony, form and counterpoint through writing and listening. For non-majors and music theatre majors only.

HOM 126 Introductory Music Theory 3 Y

Crosslisted with: MTC 126
Elementary harmony, form and counterpoint through writing and listening. For non-majors and music theatre majors only.

HOM 165 Understanding Music I 3 Y

The art of music. Development of musical styles in the West from ancient Greece through the Middle Ages and Renaissance. Assumes no prior musical knowledge.

HOM 166 Understanding Music II 3 Y

Introduction to the art of music. Musical styles from early baroque to the 20th century, stressing the characteristic interests and achievements of each historical epoch. Assumes no prior musical knowledge.

HOM 180 International Course 1-12 IR

Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the S.U. academic department to assign the appropriate course level, title, and grade for the student's transcript. R

HOM 195 Performance Live 3 Y

The art and meaning of music/dance performance through dialogue with performers in the classroom and experience of performances in local settings, emphasizing both western and non-western traditions. No musical experience necessary.

HOM 202 Arts of Italy 3

Crosslisted with: HOA 202

Selected aspects, drawing on appropriate resources in architecture, museums, and/or musical performance in immediate geographical area. Offered only in Strasbourg. Specific topics determined each semester.

HOM 206 Arts of France 3

Crosslisted with: HOA 206

Selected aspects, drawing on appropriate resources in architecture, museums, and/or musical performance in immediate geographical area. Offered only in Strasbourg. Specific topics determined each semester.

HOM 207 Arts of England 3

Crosslisted with: HOA 207

Selected aspects, drawing on appropriate resources in architecture, museums, and/or musical performance in immediate geographical area. Offered only in London. Specific topics determined each semester.

HOM 209 Arts of Spain 3

Crosslisted with: HOA 209

Introduction to the art, architecture, music, and dance of Spain. Museum, gallery, and site visits. Concert, dance, and other performances. Topics vary. Offered only in Madrid.

HOM 266 History of European Music before 1750 3 Y

Crosslisted with: MHL 168

European music before 1750 in its cultural and philosophical contexts. Extensive listening. Analytical focus on selected composers and works. Presupposes familiarity with musical notation, terms, and contexts. PREREQ: HOM 165 OR 166 OR MHL 165.

HOM 267 History of European Music from 1750-1945 3 Y

Crosslisted with: MHL 267

European music from 1750 to 1945 in its cultural and philosophical contexts. Extensive listening. Analytical focus on selected composers and works. Presupposes familiarity with musical notation, terms, and concepts. PREREQ: HOM 165 OR 166 OR MHL 165 OR 166 OR MHL 266.

HOM 268 European and American Music Since 1945 3 Y

Crosslisted with: MHL 268

Major trends and figures in art music in the United States and Europe since 1945. Topics include nationalism, neoclassicism, serialism, indeterminacy, and minimalism. Assumes basic knowledge of music. PREREQ: HOM 165 OR 166 OR HOM 266 OR HOM 267.

HOM 280 International Course 1-12 IR

Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the S.U. academic department to assign the appropriate course level, title, and grade for the student's transcript. R

HOM 285 Introduction to World Music 3 Y

Crosslisted with: MHL 185

Introduction to world music in its social, political, and cultural contexts, with an emphasis on building listening and analytic skills. Intended primarily for music and music history and culture majors.

HOM 290 Independent Study 1-6 IR

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

HOM 300 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

HOM 313 Film Music 3 IR

Survey of film music, from the era of silent film to the present day.

HOM 361 Topics in European Music 3 IR

Selected works, genres, movements or topics in the history of European music. Development of musical style, analysis of social and political relationships. Specific areas of study announced each semester. PREREQ: HOM 165 OR 166 OR MHL 266. R1, 6 credits maximum

HOM 362 Symphonic Music 3 IR

History of symphonic music from the 18th century to the present. Development of musical style in its social and intellectual contexts. Musical expression and meaning. Sometimes offered abroad. PREREQ: HOM 165 OR HOM 166 OR HOM 266 OR HOM 267 OR MHL 168 OR 267.

HOM 363 Opera in Society 3 E

Opera as an art form and as a mirror of social attitudes from its inception to the present. Relationships between music and the stage in various historical settings. Sometimes offered abroad.

HOM 364 The London Classical Musical Scene 3 Y

Varieties of classical music. Styles of performance and social traditions of music unique to and currently represented in London's musical life. Includes some required attendance at musical events. Offered only in London.

HOM 371 Topics in American Music 3 IR

Studies of the social, cultural, and musical forces at work in both serious and popular music in America. Specific areas of study announced each semester. PREREQ: FIA 166 OR. R1, 6 credits maximum

HOM 373 History of Musical Theater 3 O

Musical theater within a larger cultural context. European roots of musical theater before turning to an analysis of Anglo-American musical theater in the 20th and 21st centuries.

HOM 375 American Music 3 O

Celebrates the rich history of music in the United States from the earliest times to the present. Cultivated, vernacular, and folk traditions as reflections of the American musical landscape.

HOM 377 History of Jazz 3 Y

The roots, development, and diffusion of jazz music. At least one HOM or MHL music history course is required, or permission of instructor.

HOM 378 Rock Music 3 Y

The roots, development, and diffusion of rock music. At least one HOM or MHL music history course is required, or permission of instructor.

HOM 380 International Course 1-12 IR

Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the S.U. academic department to assign the appropriate course level, title, and grade for the student's transcript. R90

HOM 381 Topics in Ethnomusicology 3 IR

Selected topics in the study of the performing arts in their cultural and social contexts, focusing on, e.g., geographic areas, genres, instruments, or cross-cultural topics. R1, 6 credits maximum

HOM 382 Music in Multicultural America 3 IR

Issues, concepts, and processes that have shaped ethnic musical subcultures in the U.S., with case studies such as the pow-wow, gospel blues, conjunto, klezmer, and South Asian bhangra musics.

HOM 383 Worlds of Dance 3 O

A cross-cultural exploration of dance cultures of the world. The structure, organization, meaning, and expressive power of dance and its connection to belief systems, politics, social organization, and aesthetic ideas.

HOM 384 Music and Dance of India 3 O

Crosslisted with: SAS 385

Selected music and dance traditions of India in their cultural, historical, and performative contexts, representing classical, devotional, folk, tribal, and popular arts. Performance as a window into Indian culture, society, and modernization.

HOM 385 Structure and Meaning in World Music 3 Y

Advanced topics in world music focusing on music cultures of Asia, Africa, and the Americas. Sound structure, style, transmission, cultural context, and meaning.
PREREQ: HOM 285 OR MHL 185.

HOM 396 Junior Seminar: Musicology in Action 3 Y

Students engage with music institutions and music communities in Central New York and beyond. Development of music research and writing skills.

HOM 400 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

HOM 419 Music and the Media 3 O

A critical study of contemporary music and media in a variety of contexts, including radio, recordings, television, film and cyberspace. Student must have successfully completed HOM or MHL course.

HOM 470 Experience Credit 1-6 IR

Participation in a discipline or subject related experience. Student must be evaluated by written or oral reports or an examination. Permission in advance with the consent of the department chairperson, instructor, and dean. Limited to those in good academic standing. R90

HOM 473 Women, Rap and Hip-Hop Feminism 3 Y

Crosslisted with: WGS 473
Links between feminism, rap music and hip-hop culture. We explore the work of actual women in hip-hop, images of women, and feminist critiques of the music and the culture. Additional work required of graduate students.

HOM 480 International Course 1-12 IR

Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the S.U. academic department to assign the appropriate course level, title, and grade for the student's transcript. R

HOM 482 The Roots of Global Pop 3 IR

The development of world popular music throughout the 20th century in the contexts of colonization, modernization, resistance, nationalism, and globalization. The sounds and production values of global fusions and issues of authenticity, identity, and appropriation.

HOM 490 Independent Study 1-6 SI

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

HOM 492 Music and the Sacred 3 O

Crosslisted with: REL 392
Intersection of music and the sacred in a variety of cultural traditions and historical periods.

HOM 494 Music and Gender 3 E

Crosslisted with: WGS 494
The impact of gender ideology and behavior on the performing arts and the role of performance in maintaining and subverting gender identities and relations.

HOM 496 Distinction Project in Music History and Cultures 3 SI

Supervised independent research culminating in a large-scale project demonstrating fluency with musical research and writing to fulfill partial requirements for Distinction in the Music and History Culture Program. Candidates for distinction in the Music History and Culture major only.

HOM 497 Music and Politics 3 IR

Western art music, popular music, and world music as political/ cultural forces. Music as a political discourse. Music and meaning.

HOM 500 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

HOM 512 World Music and Film 3 IR

The global flows of music explored through commercial, ethnographic, documentary, and animated films. How music and musicians outside the Euro-American mainstream have been represented, creatively adopted and recontextualized, and used to construct meaning.

HOM 541 Art and Ideas in the 17th Century 3-4 IR

Crosslisted with: HOA 541
A consideration of music, literature, and the visual arts in the context of 17th-century life. A study of the interrelationship of the main forces in society and their expression in the arts.

HOM 560 Arts and Ideas in the Nineteenth Century 3-4 IR

Crosslisted with: HOA 560
Music and the visual arts in 19th century European culture.

HOM 561 Music and Shakespeare 3-4 IR

Crosslisted with: DRA 561
A discussion-based course investigating the place of music in Shakespeare's plays. Also considers the role of music in early modern English culture as well as later musical adaptations of Shakespeare.

HOM 562 Bach and Handel 3 IR

Explores the careers and compositional output of Bach and Handel. Considers issues of genre, style, theology and religion, nationhood, and patronage.

HOM 563 The Operas of Wagner 3 O

The historical analysis, interpretation, and reception history of Wagner's musical and dramatic work.

HOM 568 Music of Beethoven 3 IR

Life and works of Beethoven in their social context. Beethoven as cultural symbol and in the development of style. Intensive focus on specific works.
PREREQ: HOM 165 OR 166 OR 266 OR HOM/MHL 267 OR MHL 168. R1, 6 credits maximum

HOM 571 Popular Music Studies 3 E

A research seminar in the study of popular music with emphasis on methodologies from a variety of disciplines ranging from musicology and music theory to sociology and cultural studies.

HOM 573 History of American Song 3 IR

The American art song, emphasizing the 20th-century composers. Musical style of works, placed in their social and cultural contexts.
PREREQ: HOM 166 OR HOM 195.

HOM 575 Arts and Ideas in Contemporary Culture 3-4 IR

Crosslisted with: HOA 575
Place of music and the visual arts in the context of contemporary life. Inter-relationship between the main forces of society and their expression in the arts.
PREREQ: HOA 105, 106 OR HOM 165, 166.

Honors Program

HNR 100 Honors Orientation Seminar 1 S

Intellectual enrichment, fostering academic pursuits, and introduction to the world of ideas. R

HNR 210 Arts in Society Seminar 1 S

Experience-based introduction to the arts in the city of Syracuse, such as opera, symphony, stage, and visual art. R

HNR 220 Seminar: Political Culture and Practice 1 S

Civic literacy. Concepts and analysis of ideology and political socialization. Students attend public meetings and evaluate the role of ideology in public deliberation. R

HNR 230 Seminar: Scientific Issues and Practice 1 S

Topics will vary. Introduces selected scientific concepts and controversies of current general interest. R

HNR 240 Topics in the Humanities Honors 3 S

Selected topics in the humanities to vary for Honors students. Honors student or permission of instructor. R2, 9 credits maximum

HNR 250 Topics in the Natural Sciences and Mathematics Honors 3 S

Selected topics in the natural sciences and mathematics to vary for honors students. Honors student or permission of instructor. R2, 9 credits maximum

HNR 255 Topics in the Sciences with Laboratory Component 3 Y

Selected topics in the sciences, with laboratory component. Topics will vary. R

HNR 260 Topics in the Social Sciences Honors 3 Y

Selected topics in the social sciences to vary for Honors students. R2, 9 credits maximum

HNR 309 Capstone Project Planning Seminar 1 S

Selection and refining of Honors Capstone Project topic; securing advisor; initiating research.

HNR 340 Topics in the Humanities Honors 3 S

Selected topics in the humanities to vary for Honors students. R2, 9 credits maximum

HNR 350 Topics in the Natural Sciences and Mathematics Honors 3 Y

Selected topics in the natural sciences and mathematics to vary for honors students. R2, 9 credits maximum

HNR 355 Topics in the Sciences with Laboratory Component 3 IR

Selected topics in the sciences, with laboratory component. Topics will vary. R

HNR 360 Topics in the Social Sciences Honors 3 S

Selected topics in the social sciences to vary for Honors students. R2, 9 credits maximum

HNR 400 Selected Topics 1-3 S

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

HNR 401 Honors Orientation Seminar Junior Assistant Experience 1 Y

Serve as an assistant for an HNR 100 Orientation Seminar; assist the faculty leader in guiding discussion and planning and implementing various aspects of the seminar. May be taken three times for credit. R2, 3 credits maximum

HNR 440 Topics in the Humanities Honors 3 IR

Selected topics in the Humanities to vary for Honors students. R2, 9 credits maximum

HNR 450 Topics in the Natural Sciences and Mathematics Honors 3 IR

Selected topics in the natural sciences and mathematics to vary for honors students. R2, 9 credits maximum

HNR 455 Topics in the Sciences with Laboratory Component 3 IR

Selected topics in the sciences, with laboratory component. Topics will vary. R

HNR 460 Topics in the Social Sciences Honors 3 IR

Selected topics in the social sciences to vary for Honors students. R2, 9 credits maximum

Humanities

HUM 321 Christians, Jews and Muslims 3 S

Crosslisted with: REL 321
Offered only in Madrid. Key historic encounters between the three versions of monotheism, with reference to the richness of past cultural and religious legacy rooted in the Mediterranean region.

HUM 400 Selected Topics 1-6

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

HUM 403 China: Past, Present and Future 2 Y

Presemester, two-week field studies seminar taught in Kunming or Xi'an, Beijing, and Shanghai. Introduction to the diversity of cultures and economies within China, overview of social conditions and forces that shape people's lives in the Peoples Republic of China.

HUM 404 'AZAHAR' The Islamic Conquest and the Christian Reconquest 2 S

Crosslisted with: FLL 404
Thirteen day interdisciplinary seminar. Lectures in situ. Artistic, historical, cultural monuments of Cordoba, Sevilla, Granada and Toledo or Salamanca. Theological, philosophical and historical thought as to recreate the artistic and cultural climate of medieval al-Andalus/Spain.

HUM 420 Studies in Renaissance Cultural History 3-4 IR

Topics in literature, fine arts, and religion between 1300 and 1600 in Italy, France, and England. Topics to be determined by the faculty. R

HUM 501 Humanism and the Arts in Renaissance Italy 6 SS

Interdisciplinary seminar on the interdependence of thought, art, and letters in Renaissance Italy and their dependence on social, political, religious, and cultural conditions. Given in Italy. Extensive field trips. Lectures and readings in English.

International Relations

IRP 334 Contemporary Issues in Chile and Latin America 2 S

Crosslisted with: LAS 334, PSC 428
Offered only in Santiago. This seminar features in-situ lectures and activities in Chile, Argentina and Uruguay introducing important political, sociological and environmental issues in the Southern Cone region.

IRP 401 Global Policy Seminar 3 S

A traveling, all-day weekly seminar on how U.S. foreign and national security policy is made and "how Washington works." Features guest speakers and visits to agencies and offices. Offered only in Washington, D.C. PREREQ: PSC 124 OR PSC 139.

IRP 402 Global Policy Seminar II 3 S

A traveling, all-day weekly seminar on how U.S. foreign and national security policy is made and "how Washington works." Features guest speakers and visits to agencies and offices. Offered only in Washington, D.C., and in conjunction with IRP 401. PREREQ: PSC 124 OR PSC 139.

IRP 403 Global Issues 3 S

Topics such as terrorism, weapons proliferation, AIDS, global warming, drugs, refugees, migration; lively debate, simulations. Offered only in Washington, D.C. PREREQ: PSC 124 OR PSC 139.

IRP 404 Global Political Economy Issue 3 S

International trade and economic issues; the politics of economics and economic elements of global concerns. Guest experts, advocates from interest groups in the nation's capital. Offered only in Washington, D.C. PREREQ: PSC 124 OR PSC 139.

IRP 412 Global Governance: The United Nations System 3 Y

Crosslisted with: PSC 412
The theory and practice of global governance and international diplomacy through an in-depth study of the United Nations system. Critique readings and discuss current UN-related events. Fulfills the IR capstone for International Law and Organizations (ILO). Permission of instructor. PREREQ: PSC 124.

IRP 424 Dictatorships, Human Rights, and Historical Memory in the Southern Cone 3 S

Crosslisted with: HST 424, LAS 424, PSC 424
Offered only in Santiago. The time period (1940-present) and its significance and contributions to the configuration of social, political and economic aspects of Chile today. Relies on primary sources, comparisons within the Southern Cone, and a focus on US role and influence during this period.

IRP 431 Environment and Development in China 3 S

Offered only in Beijing. Addresses challenges in the environment and development arena in contemporary China, with analysis of conflict and resolution from multiple public policy perspectives.

IRP 468 Middle East in Anthropological Perspective 3 IR

Crosslisted with: ANT 468, MES 468; Double Numbered with: IRP 668
Anthropology of the social, cultural, geographical, and political realities of the Middle East. Additional work required of graduate students.

IRP 471 Global Internship 3 S

Internship offered in Washington, D.C. as part of the Maxwell-Washington IR semester. Students accepted on the basis of academic qualifications. PREREQ: PSC 124 OR PSC 139.

IRP 515 China in Transition 3 S

Offered only in Beijing. Seminar examines the unprecedented, multi-faceted transitional changes occurring in China since the late 1970s. Impact of reforms on China's external relations.

Italian**ITA 101 Italian I 4 Y**

Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Italian. No prior experience or admission by placement testing.

ITA 102 Italian II 4 Y

Continuing proficiency-based course which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts. Activities are conducted in Italian.

PREREQ: ITA 101.

ITA 115 Beginning Italian I 3 S

Offered in Florence only for architecture and studio arts students. Proficiency-based, for students with no prior experience. Prepares students in written and spoken language. Cannot receive credit for both ITA 115 and ITA 101.

ITA 116 Beginning Italian II 3 S

Offered in Florence only for architecture and studio arts students. Continuing proficiency-based course which develops communicative abilities in speaking, listening and writing in culturally authentic contexts. Cannot receive credit for both ITA 116 and ITA 102.

PREREQ: ITA 101.

ITA 117 Italian Community and Culture I 1 S

Offered only in Florence. Develop language abilities through use of authentic materials and contexts.

PREREQ: ITA 101.

ITA 118 Italian Community and Culture III 1 S

Offered only in Florence. Develops language abilities through use of authentic materials and contexts.

PREREQ: ITA 102.

ITA 200 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ITA 201 Italian III 4 Y

Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Italian.

PREREQ: ITA 102.

ITA 202 Italian IV 4 Y

Continuing proficiency-based course which focuses on reading, discussing, and analyzing authentic texts as a basis for the expression and interpretation of meaning. Conducted in Italian.

PREREQ: ITA 201.

ITA 215 Intermediate Italian I 3 S

Offered in Florence only for architecture and studio arts students. This course reinforces students linguistic skills while expanding their knowledge of language structures and building on vocabulary. Student cannot receive credit for both ITA 215 and ITA 201

PREREQ: ITA 101, 102.

ITA 216 Intermediate Italian II 3 S

Offered in Florence only for architecture and studio arts students. This course reinforces students linguistic skills while expanding knowledge of previously acquired language structures and building on vocabulary. Students cannot receive credit for both ITA 216 and ITA 202

PREREQ: ITA 101, 102 AND 201.

ITA 217 Italian Community and Culture III(1 S

Offered only in Florence. Develops language abilities through use of authentic materials and contexts.

PREREQ: ITA 201; COREQ: ITA 201.

ITA 218 Italian Community and Culture IV 1 S

Offered only in Florence. Develops language abilities through use of authentic materials and contexts.

PREREQ: ITA 201; COREQ: ITA 202.

ITA 315 Italian Practicum I 1 S

Reviews major grammatical structures, prepares students for interactive dynamics of Italian language classroom; develops a richer vocabulary through newspaper and magazine articles. Offered only in Florence to Option II students.

PREREQ: ITA 202.

ITA 316 Italian Practicum II 1 S

Consolidates students Italian language skills after completion of classes at Centro di Cultura of University of Florence. Further exposes students to aspects of Italian culture/heritage. Offered only in Florence to Option II students.

ITA 325 Advanced Language Usage 3 Y

Further the mastery of Italian through selected readings, targeted discussion, and weekly compositions.

PREREQ: ITA 202.

ITA 326 Advanced Language Usage 3 Y

Continuation of ITA 325, emphasizing literary texts.

PREREQ: ITA 202, 325.

ITA 376 Contemporary Italian Literature 3 Y

Continuation of ITA 375. Readings in representative Italian authors since 1920. Special emphasis on the novel.

PREREQ: ITA 202 OR 232.

ITA 400 Selected Topics 1-3 SI

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ITA 421 Patterns of Modernity in 20th Century Italian Literature 3

Italian literary works marking the transition of Italy from an agricultural to an urban/technological society. Impact of technology on the Futurist avant-garde, concepts of national identity and modern self. Offered only in Florence.

ITA 422 Mass Communication in the Italian Culture 3

A comparative study of journalism; including the influence of political patronage on editorial biases. Discussion includes historical overview of Italian advertising and the broadcasting industry. Offered only in Florence.

ITA 423 Contemporary Italian Language and Society 3

A variety of primary source linguistic tools - newspapers, magazines, advertisements, radio/TV broadcasts, films, and songs - to examine and analyze key aspects of contemporary Italian language and culture. Taught in Italian. Offered only in Florence.

ITA 432 Verga, Verismo, Southern Novel 3

Representations of southern Italian life reflected in the works of Verga and selected novelists.

PREREQ: ITA 202.

ITA 442 Italian Novel Under Fascism 3

Selected novels attesting to cultural life in Italy under Fascism.

PREREQ: ITA 202.

ITA 445 Class, Ideology and the Novel After 1968 3

Selected novels studied as significant sources of ideological discourses in 20th century Italian life.

PREREQ: ITA 202.

Japanese**JPS 101 Japanese I 4 Y**

Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Japanese. No prior experience or admission by placement testing.

JPS 102 Japanese II 4 Y

Continuing proficiency-based course which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts. Activities are conducted in Japanese.

PREREQ: JPS 101.

JPS 201 Japanese III 4 Y

Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Japanese.

PREREQ: JPS 102.

JPS 202 Japanese IV 4 Y

Continuing proficiency-based course which further refines and expands linguistic skills in culturally authentic contexts. Incorporates reading, discussing, and analyzing texts as a basis for the expression and interpretation of meaning. Conducted in Japanese.
PREREQ: JPS 201.

JPS 301 Japanese V 3 Y

Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Japanese.
PREREQ: JPS 202.

JPS 302 Japanese VI 3 Y

Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Japanese.
PREREQ: JPS 301.

Judaic Studies Program

JSP 100 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

JSP 107 Religion, Literature, Film 3 IR

Crosslisted with: REL 107
Literary and cinematic approaches to religious life, focusing on Jewish and Christian communities. Special attention to the Bible, Yiddish culture, post-Holocaust writing, and Israel; topics include land, tradition, humor, science, and violence.

JSP 114 The Bible 3 Y

Crosslisted with: REL 114
Jewish and Christian scriptures in their ancient Near Eastern and Hellenistic contexts, with particular attention to their literary forms, the history of their composition, and their role in the development of Western religions and cultures. Credit is not given for REL/JSP 114 and either REL/JSP 215 or REL 217.

JSP 131 Great Jewish Writers 3 Y

Crosslisted with: LIT 131, REL 131
Introduction to fiction by Jewish authors. Topics include modernization, rebellion against authority, alienation, childhood, superstition, and the holocaust. Some films included.

JSP 135 Judaism 3 Y

Crosslisted with: REL 135
Survey of Judaic ideas, values, and cultural expressions as found in biblical, talmudic, medieval, mystical, and modern texts.

JSP 215 The Hebrew Bible 3 O

Crosslisted with: REL 215
The Hebrew Bible (often called Old Testament) in English translation, with particular attention to its literary form, its cultural context in the ancient Near East, the history of its development, and its role in Western religions and cultures. Credit is not given for REL/JSP 114 and either REL/JSP 215 or REL 217.

JSP 231 Judaic Literature 3 Y

Crosslisted with: LIT 231, REL 231
Survey of major works in the Judaic tradition, including Hebrew and Yiddish prose in translation. Themes include nature, culture, exile, humor, satire, and talking takhlis.

JSP 290 Independent Study 1-6 IR

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

JSP 300 Selected Topics 1-3 S

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

JSP 301 Advanced Hebrew I 3 O

Crosslisted with: HEB 301
Hebrew literature in the original, ranging from the Bible to contemporary fiction, including 19th-century works such as Hasidic tales and Enlightenment satires. R1, 6 credits maximum

JSP 303 Advanced Hebrew II 3 O

Crosslisted with: HEB 303
Continuation of HEB/JSP 301, using more advanced texts

JSP 307 The Temple and the Dead Sea Scrolls 3 IR

Crosslisted with: REL 307
History and literature of Second Temple Judaism including the canonization of scripture, origins of the synagogue, apocalyptic literature, the Dead Sea Scrolls, and other developments leading to early Christianity and rabbinic Judaism.

JSP 311 The Bible as Literature 3 IR

Crosslisted with: REL 311
A study of one literary genre (such as prose narrative, didactic poetry, or hymnody) through the books of the Hebrew Bible in comparison to other ancient literatures.

JSP 331 European and American Judaic Literature 3 Y

Crosslisted with: REL 331
Readings of 20th-century fiction and drama, focusing on works by Schnitzler, Kafka, Wiesel, P. Levi, Yeziarska, H. Roth, I.B. Singer, Malamud, P. Roth, and Ozick.

JSP 333 Yiddish Literature in Translation 3 Y

Crosslisted with: LIT 333, REL 333
Survey of Yiddish literature, with special attention to the classic Yiddish authors, Yiddish theater, modernism, and Yiddish women writers. Themes of minority culture, class struggle, hasidism, and the decline of the Shtetl.

JSP 334 Modern Judaism 3 IR

Crosslisted with: REL 334
The impact of modernity on Jewish life and thought. Issues and themes vary.

JSP 335 Israeli Literature and Culture 3 Y

Crosslisted with: LIT 335, REL 335
Literary and cultural approach to the modern history of Israel, with special attention to conflicts that have arisen during the Zionist project.

JSP 337 Shoah: Responding to the Holocaust 3 IR

Crosslisted with: REL 337
Historical, literary, and philosophical representations of, and responses to, the Nazi genocide. Philosophical, theological, and ethical challenges raised by the Holocaust.

JSP 342 Religion and Politics in the Israeli-Palestinian Conflict 3 S

Crosslisted with: MES 342, PSC 342, REL 342
Considers the extent to which religion matters in an enduring ethno-nationalist conflict. Approaches the Israeli-Palestinian conflict from an interdisciplinary perspective that explores the intersection of religion and politics.

JSP 379 American Slavery and the Holocaust 3 IR

Crosslisted with: PHI 379, PSC 379
An in-depth study of the normative structure of both American Slavery and the Holocaust, focusing upon the ways in which each institution conceived of its victims and the character of the moral climate that prevailed in each case.

JSP 380 International Course 1-12 IR

Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the S.U. academic department to assign the appropriate course level, title, and grade for the student's transcript. R1, 12 credits maximum

JSP 392 History of the Holocaust 3

Crosslisted with: HST 392
Study of the events and issues of historical interpretation in the Holocaust, 1933-1945. Attitudes and behavior of Nazi perpetrators, Jewish victims, and bystanders.

JSP 400 Selected Topics 1-3 S

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

JSP 435 Modern Judaic Thought 3 O

Crosslisted with: PHI 435, REL 435
The philosophical implications of Judaism's encounter with modernity. Close readings of selected modern Jewish thinkers. Issues and figures vary. R3, 9 credits maximum

JSP 439 Senior Seminar in Judaic Studies 3 Y

Crosslisted with: REL 439
Interdisciplinary study of special topics in the Judaic tradition. R2, 9 credits maximum

JSP 490 Independent Study 1-6 Y

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

JSP 516 The Torah/Pentateuch 3 IR

Crosslisted with: REL 516

Critical issues in the modern study of the Pentateuch, including its composition, literary form, and canonization; the clash of historical and literary methods in contemporary biblical criticism.

Kiswahili**SWA 101 Kiswahili I 4 Y**

Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Kiswahili. No prior experience or admission by placement testing.

SWA 102 Kiswahili II 4 Y

Continuing proficiency-based course, which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts. Activities are conducted in Kiswahili.

PREREQ:SWA 101.

SWA 201 Kiswahili III 4 Y

Continuing proficiency-based course, which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Kiswahili.

PREREQ:SWA 102.

SWA 202 Kiswahili IV 4 Y

Continuing proficiency-based course, which further refines and expands previously acquired linguistic skills in culturally authentic contexts. Incorporates reading, discussing, and analyzing texts as a basis for the expression and interpretation of meaning. Activities are conducted in Kiswahili.

PREREQ:SWA 201.

Latin**LAT 101 Latin I 4 Y**

Introductory course which prepares students to acquire a reading knowledge of classical Latin, focusing on morphology and syntax, and its role in the culture and literature of ancient Roman society.

LAT 102 Latin II 4 Y

Continuing course with emphasis on morphology and syntax. Introduction to examples of unsimplified Latin prose of the Republic and Empire, read and interpreted within the cultural context of Greco-Roman society.

PREREQ: LAT 101.

LAT 201 Latin III 4 Y

Continuing course with review of morphology and syntax and further study of idioms, rhetorical figures, and syntactic peculiarities. Reading and study of representative prose authors.

PREREQ: LAT 102.

LAT 310 Latin Prose Authors 3 E

Readings from selected authors. Review of grammar and syntax.

PREREQ: LAT 202. R3, 12 credits maximum

LAT 320 Latin Poets 3 O

Readings from selected Latin poets. Review of grammar and syntax. Latin metrics and prosody.

PREREQ: LAT 310,313. R2, 9 credits maximum

Latino-Latin American Studies**LAS 200 Selected Topics 1-3**

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

LAS 300 Selected Topics 1-3

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

LAS 302 Introduction to Latin American Literature 3 Y

Crosslisted with: SPA 322

Modern Latin American literature using new methods of study, basically Cultural Semiotics.

PREREQ: SPA 202.

LAS 313 Modern Latin America 3 Y

Crosslisted with: HST 323

The turmoil of the postindependence period and the search for economic and political stability. Reasons for and consequences of export-led growth. The role of the United States in preserving the status quo in the Americas.

LAS 315 Advanced Language Usage II 3

Crosslisted with: SPA 302

Advanced grammar, composition, and conversation. Offered only in SUAbroad's Center in Madrid.

LAS 318 South American Cultures 3 IR

Crosslisted with: ANT 322

Archaeology and cultural history. Racial, linguistic, and cultural areas from 1492 to today. Studies of contemporary Indian and Mestizo populations.

LAS 321 Latin American Development: Spatial Aspects 3 IR

Crosslisted with: GEO 321

Spatial dimensions of development process in Latin America since the 1930s in a variety of contexts and at several scales. Variety of spatial models that may be applied.

LAS 322 Colonial Latin America 3 Y

Crosslisted with: HST 322, SPA 325

Development of Amer-Indian civilization and the Spanish conquests. Evolution of the Spanish American economy and the unique American culture. Growth of the plantation economy of Brazil. The movements toward independence.

PREREQ: SPA 202.

LAS 324 Recent Latin American History 3 IR

Crosslisted with: HST 324

Developments since World War I. Political, economic, and social change and growth of nationalism.

LAS 325 Colonialism in Latin America 3 Y

Processes of geographical change in Latin America from the sixteenth to the early twentieth century. Reconstruction of geographies of Latin America at critical periods.

LAS 326 Beyond the Screen: Latin American and Spanish Film 3

Crosslisted with: SPA 326

Film theories (historical, auteur, national, etc) and terminology, trends in film, women in film, problems with cultural representation.

PREREQ: SPA 202.

LAS 333 Politics of Latin America 3 Y

Crosslisted with: PSC 333

Political processes and institutions in Latin America. The region's experience with modernization.

LAS 334 Contemporary Issues in Chile and Latin America 2 S

Crosslisted with: IRP 334, PSC 428

Offered only in Santiago. This seminar features in-situ lectures and activities in Chile, Argentina and Uruguay introducing important political, sociological and environmental issues in the Southern Cone region.

LAS 358 Inter-American Relations 3

Crosslisted with: PSC 358

United States-Latin American relations. Evolution of contemporary issues in inter-American relations. Foreign policies in the region.

LAS 371 Gender in Latin American History 3 Y

Crosslisted with: HST 371, WGS 371

History of women and gender relations from colonial period to the present. Influence of race, class, and ethnicity on gender. Relation of gender to labor, family, sexuality, and politics.

LAS 372 Race in Latin America 3

Crosslisted with: HST 372, NAT 372

Race relations in Latin America from the late colonial era to present. Indigenous, immigrant, and Afro-Latin American experiences and how they have changed over time. Relations of race to national identity.

LAS 402 Hispanic Journalistic Practices 3

Crosslisted with: SPA 402

Examines journalism and media in Spanish as they are practiced in Spanish-speaking countries and the U.S. Conducted in Spanish. [Effective spring 2009]

LAS 424 Dictatorships, Human Rights, and Historical Memory in the Southern Cone 3 S

Crosslisted with: HST 424, IRP 424, PSC 424
Offered only in Santiago. The time period (1940-present) and its significance and contributions to the configuration of social, political and economic aspects of Chile today. Relies on primary sources, comparisons within the Southern Cone, and a focus on US role and influence during this period.

LAS 425 Post-colonialism and Philosophy 3

Crosslisted with: PHI 425
The philosophical analysis and critique of colonialism's representations of other cultures and justifications for intervention, as well as debates over effective forms of resistance.

LAS 433 Business Spanish 3 S

Crosslisted with: SPA 433
Language usage in relation to Spanish and Latin American business.
PREREQ: SPA 301.

LAS 461 Nobel Prize Writers of the Spanish-Speaking World 3

Crosslisted with: SPA 461
Presents works by 10 Nobel Laureates in Spanish.301
PREREQ: SPA 301.

LAS 463 Contemporary Latin American Theater 3

Crosslisted with: SPA 463
Introduction to major theater works and movements in 20th-century Latin America.
PREREQ: SPA 301.

LAS 465 Literature and Popular Culture 3

Crosslisted with: SPA 465
Mass culture and post modernism. Interactions between mass media culture, art, and politics in Latin America.
PREREQ: SPA 301.

LAS 467 Film and Literature 3

Crosslisted with: SPA 467
A critical study of books made into film in Latin American literature.
PREREQ: SPA 301.

LAS 471 Contemporary Latin American Literature 3

Crosslisted with: SPA 471
Latin American literature from the 1920s to the present. Emphasizes the development of the contemporary novel.
PREREQ: SPA 301.

LAS 475 Women, Myth and Nation in Latin American Literature 3

Crosslisted with: SPA 475, WGS 475
Myths about women and nation. Modern interpretations and reconstructions of these myths in contemporary literature by Latin American women writers. Literary texts with theories on myth. Representation and "real" constructions of feminine and national identities in different regions of Latin America.
PREREQ: SPA 301.

LAS 479 Perspectives on Mexico and Central America: Literature, Art, Film 3

Crosslisted with: SPA 479
Literary works, films and arts created in Central America. Topics include perspectives on indigenism, feminine and masculine identities, religion, politics, technology and its future implications on those countries.
PREREQ: SPA 301.

LAS 481 The Literature of Latinos in the United States 3

Crosslisted with: SPA 481
Short stories and poetry written in Spanish by Latinos. Themes such as identity, language, and culture. Political, social, and cultural readings.
PREREQ: SPA 301.

LAS 489 Hispanic Caribbean Narrative and Film 3

Crosslisted with: SPA 489
Texts in Spanish by Caribbean writers. Explores themes such as women, politics, death, identity. Readings are accompanied by films and followed by critical theory and analysis.
PREREQ: SPA 301.

LAS 493 Afro-Hispanic Topics in Caribbean Literature 3

Crosslisted with: SPA 493
Caribbean African-Hispanic literature (poetry and short stories) with different areas of social and political interest. Emphasis on different Caribbean religions.
PREREQ: SPA 301.

LAS 495 Marginal Cultures in Hispanic Caribbean Literature 3

Crosslisted with: SPA 495
Caribbean poetry and short stories about race, gender, and homoeroticism. Includes social, political, and cultural readings.

LAS 497 Text and Context in Cuban Revolutionary Literature 3

Crosslisted with: SPA 497
Literary works of the Cuban revolutionary period by Cuban and Cuban-American authors from different literary and political points of view.
PREREQ: SPA 301.

LAS 520 Research on Latin America 1-3 S

Crosslisted with: GEO 520
Reading and special work R

LAS 523 Culture Change in Latin America 3 Y

Crosslisted with: ANT 523
Effects of urbanization, industrialization, population increases, international politics, and modernization upon primitive and peasant populations of Latin America.

LAS 537 Environmental Policy in a Development Context 3 S

Crosslisted with: GEO 537
Offered only in Santiago. Examines historical/intellectual/ material processes that transformed nature into natural resources to be exploited; ways global political process has guided global responses to environmental problems; Chilean environmental policy over the last 20 years.

Linguistics

LIN 201 The Nature and Study of Language 3 Y

Introduction to the study of human language. Language change and diversity, usage, meaning, phonetics, grammatical description, and language learning.

LIN 202 Languages of the World 3 Y

Crosslisted with: ANT 202
Introduction to Universal Grammar. Similarities and differences in structures of human languages. Syntax and morphology. Theory development.
PREREQ: LIN 201.

LIN 251 English Words 3

An analysis of English words, their structure, history, meaning, and formation from a theoretically informed linguistic perspective. The course is primarily concerned with the words borrowed from the classical languages.

LIN 301 Introductory Linguistic Analysis 3 Y

Double Numbered with: LIN 601
Techniques and methods of modern linguistics, including specific analysis of phonetic, phonological, morphological, and syntactic aspects of natural language structure. Additional work required of graduate students.
PREREQ: LIN 201.

LIN 400 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

LIN 421 Introduction to Methodology of Teaching Languages: English/Foreign Language Teaching 3 Y

Double Numbered with: LIN 621
Topics include history and theories of language teaching; the teaching of content (grammar, sound system, lexis, and pragmatics) and skills; and assessment. Additional work required of graduate students.
PREREQ: LIN 301.

LIN 422 Advanced Methods of Teaching Languages: English/Foreign Language Teaching 3 Y

Double Numbered with: LIN 622
Topics include curriculum development, technology in language learning, global dialects, individual differences, second language acquisition, and professional development. Students complete a practicum. Additional work required of graduate students.
PREREQ: LIN 421.

LIN 431 Phonological Analysis 3 Y

Double Numbered with: LIN 631
Introduction to analysis of sound systems of natural languages. Extra work required of graduate students.
PREREQ: LIN 301.

LIN 441 Syntactic Analysis 3 Y

Double Numbered with: LIN 641
Introduction to analysis of morphological and syntactic systems of natural languages. Extra work required of graduate students.
PREREQ: LIN 301.

LIN 451 Morphological Analysis 3

Double Numbered with: LIN 651

An introduction to morphological theory and analysis in contemporary generative linguistics. The course familiarizes students with the main topics that interest morphologists by exposing students to a range of cross-linguistic data.

PREREQ: LIN 301/601.

LIN 461 Introduction to Diachronic Linguistics 3 Y

Double Numbered with: LIN 661

An introduction to traditional terminology and methods, and to more recent studies in formal, explanatory theories of language change. Theories of phonological as well as syntactic change. Additional work required of graduate students.

PREREQ: LIN 301.

LIN 471 Dimension of Bilingualism and Multiculturalism 3 Y

Double Numbered with: LIN 671

Foundations, theory, and practice of bilingual/bicultural education. Critical concepts of linguistic, sociolinguistic, psycholinguistic issues and methods as applied to bilingualism/multiculturalism. Additional work required of graduate students.

LIN 472 Language, Culture, and Society 3 Y

Crosslisted with: ANT 472, WGS 472; Double Numbered with: LIN 672

Cross-cultural survey of the role of language in culture and society, including cognition and language usage along the dimensions of class, gender, race, ethnicity, and social status.

LIN 481 Global Communication Through World Englishes 3 Y

Double Numbered with: LIN 681

World Englishes pose unique challenges for linguists, language pedagogues, business leaders, communication experts, and researchers in intercultural/ international communication. Various topics reflecting these challenges are presented. Additional work required of graduate students.

LIN 491 Universal Grammar and Second Language Acquisition 3 Y

Double Numbered with: LIN 691

Basic concepts and results of research in grammatical theory and second language acquisition and implications for the understanding of the performance of second language acquirers. Additional work required of graduate students.

PREREQ: LIN 441/641.

LIN 499 Honors Thesis 1-6 SI

R

LIN 571 Topics in Sociolinguistics 3 SI

Crosslisted with: ANT 571, SOC 571

Functions of language in society. Geographical, socioeconomic, and male-female differentiation. Functions of various types of speech events. Requirements include a research project. R1, 6 credits maximum

LIN 591 Second Language Acquisition 3 Y

Survey of research on second-language acquisition; biological, cognitive, effective, and social factors.

PREREQ: LIN 301 OR LIN 601.

Literature In English Translation

LIT 101 Introduction to Classical Literature 3 Y

Major popular and influential genres of classical literature. Heroic tradition in epic and tragic spirit of epic and drama. Birth of comedy.

LIT 102 Introduction to Classical Literature 3 Y

Major popular and influential genres of classical literature. Heroic tradition in epic and tragic spirit of epic and drama. Birth of comedy.

LIT 131 Great Jewish Writers 3 IR

Crosslisted with: JSP 131, REL 131

Introduction to fiction by Jewish authors.

Topics include modernization, rebellion against authority, alienation, childhood, superstition, and the holocaust. Some films included.

LIT 203 Greek and Roman Epic in English Translation 3 IR

Apollonius, Hesiod, Homer, Lucretius, and Virgil. No knowledge of Greek or Latin required.

LIT 211 Greek and Roman Drama in English Translation 3 IR

Selected works of the Greek and Roman dramatists. No knowledge of Greek or Latin required.

LIT 226 Dostoevsky and Tolstoy 3 Y

Lectures, readings, discussions, and reports on Dostoevsky's and Tolstoy's major novels.

LIT 227 Pasternak and Solzhenitsyn 3 Y

The search for the meaning of human existence, for universal truths in life: the importance of individual freedom, morality, human affection and suffering in the caldron of twentieth-century Soviet socialism.

LIT 231 Judaic Literature 3 Y

Crosslisted with: JSP 231, REL 231

Survey of major works in the Judaic tradition, including Hebrew and Yiddish prose in translation. Themes include nature, culture, exile, humor, satire, and talking takhlis.

LIT 241 Dante and the Medieval World 3 IR

Passages from the Divine Comedy as an encyclopedic work illuminating vital historical, intellectual, and cultural forces in the medieval world.

LIT 242 Petrarch and the Renaissance World 3 IR

This course is a sequel to LIT 241. Petrarch's poetry and prose will provide the point of departure for an examination of issues and problems in the Renaissance.

LIT 245 Florence and Renaissance Civilization 3 IR

Florence as the linguistic, literary, and cultural center of early medieval and modern Italian civilization.

LIT 255 Cervantes in English 3 E

Analysis and interpretation of Don Quixote and selected shorter works. Not recommended for Spanish majors.

LIT 257 Italian Cinema and Culture Since World War II 3

Selected films of DeSica, Fellini, Visconti, and others as significant documents of Italian life in the post-war period and beyond.

LIT 301 French Cinema Vs. Hollywood 3

A comparative study of French and American cinema across various themes and genres. Offered in Strasbourg only.

LIT 331 Russian Culture Through Fiction and Film 3

Crosslisted with: RUS 331

Documentary films and readings of short fiction. Elements of Russian culture and provides an understanding of Russian national identity as it has developed from Kievan Russian to the present day.

LIT 332 Russian Fairy Tales and Folklore 3

Crosslisted with: RUS 332

The history and development of fairy tales in Russia. Begins with oral tales, influenced by early folklore and pagan rituals, and progresses through literary fairy tales and film versions.

LIT 333 Yiddish Literature in Translation 3 Y

Crosslisted with: JSP 333, REL 333

Survey of Yiddish literature, with special attention to the classic Yiddish authors, Yiddish theater, modernism, and Yiddish women writers. Themes of minority culture, class struggle, hasidism, and the decline of the Shtetl.

LIT 335 Israeli Literature and Culture 3 Y

Crosslisted with: JSP 335, REL 335

Literary and cultural approach to the modern history of Israel, with special attention to conflicts that have arisen during the Zionist project.

LIT 336 Arabic Cultures 3 IR

Crosslisted with: MES 336

Arabic culture through geography, literature, religion (Islam and other religions), ethnic groups, social divisions, films, the media, music, art, food, gender issues, and everyday life.

LIT 361 Russian Literary Film Adaptations 3 IR

Crosslisted with: RUS 361

Study of film adaptations of Russian literary classics.

LIT 381 Italian and European Theater 1500-1700 3
Crosslisted with: DRA 381
Secular and professional drama as it emerged in Renaissance Italy and spread to Spain, England, and France. Selected works of Machiavelli, Monteverdi, Cervantes, Calderon, Shakespeare, Molière, Behn and others (in English). Offered only in Florence.

LIT 382 Asian Cinema 3 Y
Offered only in Hong Kong. Selection of classic and contemporary films by Asian filmmakers that exemplify cultural and aesthetic traditions, values, and trends.

LIT 421 Classical Mythology 3
Crosslisted with: CLA 421, REL 421
Myths and rituals of Greek mythology and religion. Ancient poets/playwrights and important mythological themes found in later Western religious/artistic traditions. Offered only in Florence.

LIT 442 From Dante to Calvino: Italian Literature in Translation 3
Italian writers from the 14th century to the 20th century. Offered only in Florence.

LIT 443 Dante, Petrarch, and Boccaccio 3
Early, central Italian literature and society. Dante's ""Comedy,"" Petrarch's ""Canzoniere,"" Boccaccio's ""Decameron."" Offered only in Florence.

LIT 445 Comedy in Italy: From Ancient to Modern Times 3
Comedy, Italian style, from ancient Roman stages to the international scene. Laughter, farces, cartoons, films, and the use of comic masks. Students read plays by Plautus, Machiavelli, Fo, Shakespeare, and Moliere. Theater excursions. Student performance option. Offered only in Florence.

LIT 510 Studies in Greek and Roman Literature in Translation 3 SI
Selected topics in Greek or Roman literature studied in English. No knowledge of Greek or Latin required. R

LIT 521 Mythology 3 IR
Greek, Roman, and Norse myths. Knowledge of foreign languages not required.

Mathematics

MAT 112 Algebraic Operations and Functions 3 S
Algebraic operations. Linear and quadratic equations, applications. Exponents and logarithms. Credit not given for MAT 111 and 112. Credit not given for MAT 112 after receiving a C or better in MAT 183 or above.

MAT 117 Foundational Mathematics via Problem Solving I 3 Y
One course in two-course sequence. Number concepts and relationships (including concepts of numeration, operations, number theory), probability, statistics, and functions. Emphasizing learning through problem solving.

MAT 118 Foundational Mathematics via Problem Solving II 3 Y
One course in a two-course sequence. Rational number concepts, geometric concepts, measurement concepts, algebraic concepts, and structures. Emphasizing learning through problem solving.

MAT 120 Supplemental Basic Mathematics I IR
Is as needed for further coursework. Does not satisfy any part of the quantitative skills requirement.
COREQ: MAT 121.

MAT 121 Probability and Statistics for the Liberal Arts I 3 S
First in a two-course sequence. Teaches probability and statistics by focusing on data and reasoning. Includes displaying data, probability models and distributions. NOTE: A student cannot receive credit for MAT 121 after completing STT 101 or any MAT course numbered above 180 with a grade of C or better.

MAT 122 Probability and Statistics for the Liberal Arts II 3 S
Second in a two-course sequence. Teaches probability and statistics focusing on data and reasoning. Includes displaying data, probability models, and distributions. NOTE: A student cannot receive credit for MAT 122 after completing any MAT course numbered above 180 with a grade of C or better.
PREREQ: MAT 121.

MAT 183 Elements of Modern Mathematics 3 S
Linear equations, matrices, and linear programming. Introduction to mathematics of finance. Discrete probability theory. For students interested in management, finance, economics, or related areas.

MAT 194 Precalculus 3 S
Polynomial, rational, exponential, and logarithmic functions. Analytical trigonometry and trigonometric functions. A student cannot receive credit for MAT 194 after receiving a grade of C or better in any calculus course.

MAT 200 Selected Topics I-3 IR
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

MAT 221 Elementary Probability and Statistics I 3 S
First of a two-course sequence. For students in fields that emphasize quantitative methods. Probability, design of experiments, sampling theory, introduction of computers for data management, evaluation of models, and estimation of parameters. Credit not given for both MAT 221 and MAT 321.

MAT 222 Elementary Probability and Statistics II 3 S
Continuation of MAT 221. Further methods of statistical analysis emphasizing statistical reasoning and data analysis using statistical software. Basic concepts of hypothesis testing, estimation and confidence intervals, t-tests and chi-square tests, linear regression, analysis of variance. Credit will not be given for MAT 222 after completing MAT 321 with a grade of C or better.
PREREQ: MAT 221.

MAT 275 Introduction to Abstract Mathematics 3 Y
Basic set theory and symbolic logic. Methods of proof, including mathematical induction. Relations, partitions, partial orders, functions, and graphs. Modular arithmetic. Credit cannot be given for both MAT 275 and CIS 275.

MAT 284 Business Calculus 3 S
One-variable differential and integral calculus. Applications to business and economics. MAT 284 may not be taken for credit after successful completion of MAT 285 or MAT 295.

MAT 285 Life Sciences Calculus I 3 S
Functions and their graphs, derivatives and their applications, differentiation techniques, the exponential and logarithm functions, multivariable differential calculus including constrained optimization. MAT 285 may not be taken for credit after successful completion of MAT 284 or MAT 295

MAT 286 Life Sciences Calculus II 3 Y
Antidifferentiation; the definite integral and applications; first order differential equations with applications. Cannot be taken for credit after successfully completing MAT 296.
PREREQ: MAT 285.

MAT 290 Independent Study I-6 IR
In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

MAT 295 Calculus I 4 S
Analytic geometry, limits, derivatives, maxima-minima, related rates, graphs, differentials, exponential and logarithmic functions, mean-value theorem, integration. For science majors. MAT 295 may not be taken for credit after successful completion of MAT 286.

MAT 296 Calculus II 2-4 S
Integration: the definite integral and applications; trigonometric functions, methods of integration, improper integrals, L'Hospital's rule, infinite series, elementary differential equations, parametric equations, polar coordinates.
PREREQ: MAT 295.

MAT 331 First Course in Linear Algebra 3 S
Linear equations, n-dimensional euclidean space, linear transformations, matrices and determinants. Geometric aspects. Credit will not be given for both MAT 331 and 485.
PREREQ: MAT 286 OR 296.

MAT 397 Calculus III 4 S

Analytic geometry and vectors; functions of more than one variable, multiple integrals, partial differentiation, physical applications. PREREQ: MAT 296.

MAT 412 Foundations of Calculus 3 Y

Introduction to the foundations of calculus covering topics from the following: the real number system, functions, limits, sequences, infinite series, continuity, and uniform continuity. Enrollment limited to mathematics majors. PREREQ: MAT 275 OR CIS 275, AND MAT 397.

MAT 485 Differential Equations and Matrix Algebra for Engineers 3 S

Solution of ordinary differential equations, including series methods. Vector spaces, matrix algebra, rank, linear systems, eigenvalues and eigenvectors. Credit not given for both MAT 485 and MAT 514, nor for both MAT 331 and 485. Does not count toward mathematics major. PREREQ: MAT 397.

MAT 490 Independent Study 1-6 IR

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

MAT 511 Advanced Calculus 3 Y

Partial derivatives, implicit functions, integration in several variables, line and surface integrals. PREREQ: MAT 331, 397.

MAT 512 Introduction to Real Analysis 3 Y

Real-number system, set theory and elementary topological properties of the real line, continuity and differentiability, sequences and series, uniform convergence, Riemann integration, and improper integrals. PREREQ: MAT 412.

MAT 513 Introduction to Complex Analysis 3 Y

Complex number system and its arithmetic, geometric representation. Linear transformations. Analytic functions and the Cauchy-Riemann equations. Integration and Cauchy's theorem, Taylor and Laurent series, singularities, poles, and residues. Applications. PREREQ: MAT 412 OR 511.

MAT 514 Introduction to Ordinary Differential Equations 3 S

First order differential equations. Second order linear differential equations. Power series solutions. Bessel's equations, Laplace transforms. Systems of first order differential equations. Applications. Credit will not be given for both MAT 514 and MAT 485. PREREQ: MAT 397.

MAT 517 Partial Differential Equations and Fourier Series 3 Y

Partial differential equations, boundary-value problems, Fourier series and orthogonal expansions, Bessel functions, and Legendre polynomials. PREREQ: MAT 514 OR MAT 485.

MAT 518 Topics in Applied Mathematics 3 Y

Topics may vary but may include partial differential equations, introduction to calculus of variations and Hamilton's principle, difference equations, complex variables, or integral equations. PREREQ: MAT 514.

MAT 521 Introduction to Probability and Statistics 3 S

Algebra of sets. Probability in finite samples spaces. Binomial and multinomial coefficients. Random variables. Expected value and standard deviation. Density functions. Statistical applications. PREREQ: MAT 397.

MAT 525 Mathematical Statistics 3 Y

Estimation and confidence intervals. Normal distribution and central limit theorem. Testing hypotheses, chi-square, t, and F distributions. Least squares, regression, and correlation. PREREQ: MAT 521.

MAT 526 Probability 3 Y

Topics chosen from: Markov chains, game theory, queuing theory, information theory PREREQ: MAT 521.

MAT 531 Second Course in Linear Algebra 3 Y

Abstract vector spaces and inner product spaces, linear transformations and linear operators, eigenvalues and diagonalization. Primarily for mathematics majors. PREREQ: MAT 275 OR CIS 275, AND MAT 331.

MAT 532 Applied Linear Algebra 3 S/IR

Factorization of matrices, eigenvalues and eigenvectors, orthogonality. Applications of matrices to such topics as least-squares approximation, fast Fourier transform, difference and differential equations, linear programming, networks, game theory. PREREQ: MAT 331 OR 485.

MAT 534 Introduction to Abstract Algebra 3 Y

Theory of groups, rings, and fields, including the integers and polynomial rings. PREREQ: MAT 531.

MAT 541 Introduction to Number Theory 3 IR

Prime numbers, greatest common divisors, congruences. Euler's function, Fermat's theorem, primitive roots, indices, quadratic residues, Legendre and Jacobi symbols, and the quadratic reciprocity law. PREREQ: MAT 275 OR CIS 275, AND MAT 331.

MAT 545 Introduction to Combinatorics 3 Y

Crosslisted with: CIS 545
Permutations, combinations, recurrence relations, generating functions, inclusion-exclusion and applications, introductory graph theory. PREREQ: MAT 275 OR CIS 275.

MAT 551 Fundamental Concepts of Geometry 3 IR

Synthetic projective geometries. Coordinate systems for projective spaces. Algebraic representation of projective transformations; euclidean, non-euclidean, and affine geometries as real cases of projective geometry. PREREQ: MAT 275 OR CIS 275, AND MAT 331.

MAT 554 Differential Geometry 3 IR

Theory of curves in three-dimensional space, including Frenet's formula, Gaussian and mean curvature, geodesics, developable surfaces, special conformal mappings. PREREQ: MAT 412 OR 511.

MAT 562 Elementary Topology 3 IR

Metrics and metric spaces, topologies and topological spaces, separation properties, compactness, connectedness, and continuity. PREREQ: MAT 275 OR CIS 275, AND MAT 512.

MAT 581 Numerical Methods with Programming 3 Y

Approximation methods for solution of nonlinear equations. Interpolation problems. Numerical integration. Solution of ordinary differential equations. Error analysis and writing computer programs. Primarily for mathematics and engineering students. PREREQ: MAT 397.

MAT 593 History of Mathematics 3 IR

Mathematical concepts in their historical perspective. Character and contributions of the great mathematicians and relation of mathematics to other sciences. PREREQ: MAT 397 AND AT LEAST TWO 500-LEVEL MATH COURSES.

MAT 599 Senior Seminar in Mathematics 3 IR

Topic Chosen by the instructor. Permission of department.

Maxwell**MAX 123 Critical Issues for the United States . 3 S**

Interdisciplinary focus on critical issues facing America. Perspectives of social science disciplines on the meaning of the American Dream, its past and its future.

MAX 132 Global Community 3 S

Dynamics of worldwide society and its cultures. Global economy and political order. Tensions within these realms. Attempts by different communities to either participate in or to hold themselves aloof from "global culture."

MAX 201 Quantitative Methods for the Social Sciences 3 S

Skills necessary to analyze data and evaluate research: research design, sampling design, descriptive and inferential statistics, data sources for social science, constructing data sets, reading and constructing tables and charts.

Middle Eastern Studies

MES 318 Introduction to the Middle East 3 IR

Crosslisted with: HST 318

Beginning with the rise and spread of Islam through the reform era of the nineteenth-century, this course focuses on the social and cultural history of the Ottoman Empire.

MES 319 The Middle East in the 20th Century 3 IR

Crosslisted with: HST 319

Social and cultural history of the Middle East in the twentieth-century, including themes such as colonialism, anti-colonial nationalism, modernity, social movements, women and gender, and contemporary issues.

MES 336 Arabic Cultures 3 IR

Crosslisted with: LIT 336

Arabic culture through geography, literature, religion (Islam and other religions), ethnic groups, social divisions, films, the media, music, art, food, gender issues, and everyday life.

MES 342 Religion and Politics in the Israeli-Palestinian Conflict 3 S

Crosslisted with: JSP 342, PSC 342, REL 342

Considers the extent to which religion matters in an enduring ethno-nationalist conflict. Approaches the Israeli-Palestinian conflict from an interdisciplinary perspective that explores the intersection of religion and politics.

MES 344 Politics of the Middle East 3 Y

Crosslisted with: PSC 344

Religious, political, economic, and social dimensions of life in modern Middle East. Legacy of Islam, encounter with Western modernity, Arab-Israeli conflict, and political economy of the region.

MES 345 Islam and Politics in Asia 3 IR

Crosslisted with: PSC 345

Survey of the diverse and protean role Islam plays in Asian public life by analyzing the variegated cultural, political, religious, and social milieu that it has encountered in Central, South, and Southeast Asia.

MES 349 Politics of Iran 3 IR

Crosslisted with: PSC 349

Historical and theoretical understanding of modern Iranian politics and society from the late 19th century to the present time.

MES 366 Representations of the Middle East 3

Crosslisted with: PSC 366

The politics of "gazing" and cultural imagination through critical analysis of how the mass media articulates, transmits, promotes and legitimizes knowledge and information about the Middle East.

MES 367 Oil, Water and War 3

Crosslisted with: PSC 367

Examines current level of knowledge about historical connections among war and the resources of petroleum and fresh water. Also looks at how alternative claims about these goods will be expressed in the future.

MES 368 Islam and the West 3

Crosslisted with: HST 368, PSC 368

Topics include globalization and interdependency of faiths, the "clash of civilizations", relations between religion and state in Islam and Christianity and whether it is possible to separate the world into monolithic entities "Islam" and "West". Offered in London only.

MES 382 Health in the Middle East 3 IR

Crosslisted with: ANT 382, HTW 382

Surveys major cultural, biological and environmental features of the Middle East and relates them to aspects of health including infectious disease, chronic disease, reproductive health, population, war, poverty and globalization.

MES 430 Senior Seminar in Middle Eastern Studies 3 Y

The culmination course for students pursuing a minor in Middle Eastern Studies. An interdisciplinary study of special topics that fall under the rubric of Middle Eastern Studies: Western modernity, Islamic thought and practices, and popular culture. PREREQ: MES/PSC 344. R1, 6 credits maximum

MES 468 Middle East in Anthropological Perspective 3 IR

Crosslisted with: ANT 468, IRP 468; Double Numbered with: MES 668

Anthropology of the social, cultural, geographical, and political realities of the Middle East. Additional work required of graduate students.

MES 495 Distinction Thesis in Middle Eastern Studies 3 S

Thesis in partial fulfillment of the requirements for the Distinction in Middle Eastern Studies Program. Normally in the semester prior to graduation, topic chosen in conjunction with advisor.

Native American Studies

NAT 105 Introduction to Native American Studies 3 S

Overview of critical issues in Native American Studies: colonization, religious freedom, environment, sovereignty, and politics of identity, interdisciplinary, comparative, and indigenous perspectives in relation to histories, societies, and cultures.

NAT 142 Native American Religion 3 Y

Crosslisted with: REL 142

Religious beliefs and practices of native Americans; the diversity as well as similarity of religious expression.

NAT 200 Selected Topics in Native American Studies 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

NAT 208 Haudenosaunee Languages and Culture 3 O

Languages and culture of the six Haudenosaunee Indian nations. Terminology and structure of Haudenosaunee languages. Creation story, Great Law of Peace, Code of Handsome Lake.

NAT 244 Indigenous Religions 3 E

Crosslisted with: ANT 273, REL 244

The connections between material life and religious life in cultures throughout the world. The diverse ways that various cultures inhabit their landscapes.

NAT 290 Independent Study 1-6 S

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

NAT 300 Selected Topics in Native American Studies 1-3 S

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

NAT 323 Peoples and Cultures of North America 3 IR

Crosslisted with: ANT 323

Racial, linguistic, and cultural areas of North America from the Rio Grande to the Arctic. Selected areas and tribes. Data from archaeology, historical records, and contemporary anthropological fieldwork.

NAT 346 Native North American Art 3

Crosslisted with: HOA 387

Critical exploration of meanings, functions, techniques, and varieties of art in Native North American cultures, ancient to present. Attention to continuities, changes, and cultural exchanges: anthropological vs. art historical perspectives: limitations of term "art."

NAT 347 Religion and the Conquest of America 3 IR

Crosslisted with: REL 347

The development of America through the contact between indigenous and colonial people's divergent religious understandings of land.

NAT 348 Religion and American Consumerism 3 IR

Crosslisted with: REL 348

Interrogates the relationship of American religious and economic practices, as compared with Native American traditions, during the 19th and 20th centuries.

NAT 372 Race in Latin America 3

Crosslisted with: HST 372, LAS 372

Race relations in Latin America from the late colonial era to present. Indigenous, immigrant, and Afro-Latin American experiences and how they have changed over time. Relations of race to national identity.

NAT 400 Selected Topics in Native American Studies 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

NAT 441 Federal Indian Policy and Native American Identity 3 IR

Crosslisted with: SOC 441
Shifts in Federal Indian policy and the social construction of American Indian identity. Identity struggles and identity politics in relation to blood and descent, community, land and sovereignty.

NAT 444 Contemporary Native American Movements 3 IR

Crosslisted with: SOC 444
Sociological analysis of Native American movements from 1960s to the present. National and regional movements in relation to jurisdictional issues and human rights. Red Power and pan-Indian movements are considered.

NAT 445 Public Policy and Archaeology 3 IR

Crosslisted with: ANT 445; Double Numbered with: NAT 645
Proactive critique of public policy and implementation efforts to preserve and protect archaeological and historical sites and resources. Additional work required of graduate students.

NAT 447 Archaeology of North America 3 IR

Crosslisted with: ANT 447; Double Numbered with: NAT 647
Introduction to the regional prehistory of North America north of Mexico, from the late Pleistocene until European contact. Adaptation of prehistoric human populations to their ecosystems. Additional work required of graduate students.

NAT 456 Representations of Indigenous Peoples in Popular Culture 3 IR

Crosslisted with: ANT 456; Double Numbered with: NAT 656
Contested images used by colonizers and other non-indigenous people to represent Native Americans and other indigenous peoples. How indigenous people represent themselves in a variety of media. Additional work required of graduate students.

NAT 459 Contemporary Native North American Issues 3 IR

Crosslisted with: ANT 459; Double Numbered with: NAT 659
Contemporary issues including federal Indian policy, population controls, fishing rights, religious freedom, land disputes, gaming, repatriation, environmental colonialism, and Native American artistic response. Additional work required of graduate students.

NAT 461 Museums and Native Americans 3 IR

Crosslisted with: ANT 461; Double Numbered with: NAT 661
The contested relationships among Native North Americans and museums from earliest contact until the present. Topics include: "salvage" ethnography, collecting practices, exhibition, and recent shifts in power. Additional work required of graduate students.

NAT 490 Independent Study 1-6 S

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

Persian

PRS 101 Persian I 4

Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Persian. No prior experience or admission by placement testing

PRS 102 Persian II 4

Continuing proficiency-based course, which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts. Activities are conducted in Persian. Preq: PRS 101 or admission by testing. PREREQ: PRS 101.

PRS 201 Persian III 4

Continuing proficiency-based course, which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Persian. PREREQ: PRS 102.

PRS 202 Persian IV 4

Continuing proficiency-based course, which further refines and expands previously acquired linguistic skills in culturally authentic contexts. Incorporates reading, discussing, and analyzing texts as a basis for the expression and interpretation of meaning. Activities are conducted in Persian.

Philosophy

PHI 107 Theories of Knowledge and Reality 3 S

Knowledge versus belief. Skepticism. Necessary truth. Universals. Rationalism versus empiricism. The mind-body problem. Idealism, materialism, and realism. Recommended for first-year and sophomore students. Credit will not be given for both PHI 109 and PHI 107.

PHI 109 Introduction to Philosophy (Honors) 3 Y

Fundamental philosophical problems. Works of major philosophers. Open to first-year students in the Honors Program. Credit will not be given for both PHI 109 and PHI 107.

PHI 111 Plato's Republic 3 IR

Plato's thought as developed in the Republic. May include other Platonic dialogues. Recommended for first-year students and sophomores.

PHI 171 Critical Thinking 3 Y

Presentation and evaluation of reasoning, including arguments, explanations, and the justification of decisions. Topics of current social and ethical interest will serve as examples, with one topic selected for extended study.

PHI 172 Making Decisions 3 IR

An introductory exploration of decision making: "What is the difference between decisions made well and decisions made badly?" Selected readings from various disciplines.

PHI 175 Introduction to Social and Political Philosophy 3 S

Classical and contemporary readings on basic topics in social and political philosophy; political obligation and authority, justice and basic rights, liberty and equality, the justification of democracy.

PHI 191 Ethics and Contemporary Issues 3 S

Ethical reflection on some basic moral quandaries of daily life. Ideas of Plato, Aristotle, Kant applied to topics such as self-respect and decency in a technological world, abortion, honesty, friendship, moral courage, self-respect.

PHI 192 Introduction to Moral Theory 3 S

Major philosophical theories about moral rightness, virtue, and the good life, such as utilitarian, Kantian, and Aristotelian theories. Historical and contemporary sources. Credit cannot be received for both PHI 192 and PHI 209.

PHI 197 Human Nature 3 Y

Philosophical theories of human nature, their underlying metaphysical claims, and their ethical consequences.

PHI 200 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

PHI 209 Introduction to Moral Philosophy (Honors) 3 Y

Selected topics in moral philosophy. Credit will not be given for both PHI 209 and PHI 191.

PHI 251 Logic 3 S

Logic as a formal language, as a component of natural language, and as a basis of a programming language. Varieties of logical systems and techniques. Syntax, semantics and pragmatics.

PHI 252 Logic and Language 3 IR

Logic as a formal language, as a component of natural language, and as a basis of a programming language. Varieties of logical systems and techniques. Syntax, semantics and pragmatics. PREREQ: PHI 251.

PHI 293 Ethics in the Media 3 S

Great traditions in ethical theory; application to television, film, new media. Role of ethics in program and content development; and in business practices. Ethical issues arising from social networking, globalization, and new trends in the media. Priority given to Newhouse students.

PHI 296 Friendship 3 IR

Reflections on the nature, varieties, rewards, and hazards of friendship. Contrast and comparison with romantic and/or sexual relationships. The role of character, trust, and mutual respect in friendship.

PHI 297 Philosophy of Feminism 3 Y

Crosslisted with: WGS 297

Philosophical analysis of feminist theory. Feminist theories about human nature, gender, relations among gender, race and class, and causes of and remedy for women's subordinate status.

PHI 307 Ancient Philosophy 3 Y

Development of Western philosophy from the Presocratic Greek philosophers to the Hellenistic period. Major figures such as Parmenides, Zeno, Socrates, Plato and Aristotle.

PHI 308 Classical Islamic Philosophy 3 IR

God, causality, freedom, human nature and knowledge, the good life and the ideal state in classical Islamic philosophy. To include authors such as Al-Kind, Al-R'z', Al-F'r'b', Ibn Sn' (Avicenna), Al-Ghaz'l', Ibn Tufayl and Ibn Rushd (Averroes).

PHI 311 The Rationalists 3 Y

Theories of mind, matter, God and freedom put forth by rationalist philosophers such as Descartes, Spinoza, Malebranche, and Leibniz.

PHI 313 British Philosophy 3 Y

Major philosophical writings of the British empiricists, including Locke, Berkeley, and Hume, with a focus on their theories of knowledge, mind, and matter.

PHI 317 Political Philosophy: The Social Contract Tradition and its Critics 3 Y

Crosslisted with: PSC 373

Political obligation in the writings of the three major social contract theorists, Hobbes, Locke, and Rousseau. Additional reading from their critics such as Burke, Mill, and Marx.

PHI 321 Twentieth Century Theories of Knowledge, Reality, and Meaning 3 IR

Major 20th-century movements in philosophy.

PHI 325 Existentialism 3 IR

Study of existentialism through the works of Kierkegaard, Nietzsche, Sartre, and others. May include relevant fiction from Gide, Sartre, Camus, Beauvoir, and others.

PHI 341 Philosophy of Religion 3 Y

Relationship of faith and reason. Nature and existence of God. Nature of humans and of human destiny.

PHI 343 Philosophy of Education 3 IR

Application of philosophical methodology and various positions in epistemology, metaphysics, and value theory to conceptual issues in education. Goals and appropriate means of education.

PHI 363 Ethics and International Relations 3 Y

Crosslisted with: PSC 363

The role of ethical concerns, imperatives, and restraints in international relations. Includes realism, just war theory, the ethics of nuclear deterrence, and other topics at the discretion of the instructor.

PHI 373 Introduction to the Philosophy of Science 3 IR

Central concepts in the analysis of science, such as law, explanation, theory, and confirmation. Controversies surrounding the nature of theoretical entities and the character of scientific change. Prereq: a year of natural science or two courses in philosophy, preferably including PHI 107, 251, or 551. PREREQ: PHI 107,251, OR 551.

PHI 375 Philosophy of Biology:What Can Evolution Explain? 3 Y

Examination of the structure, scope, and relevance of evolutionary explanations and introduces the basic concepts of philosophy of biology.

PHI 377 Philosophy of Psychology 3 IR

Conceptual and methodological issues. Such topics as innate knowledge, intentionality, rationality, intelligence, computer model of mind, concept of a person, and self-consciousness. PREREQ: PSY 205.

PHI 378 Minds and Machines 3 Y

Philosophical issues concerning artificial intelligence. Can machines understand, learn, think rationally, and be self-conscious? Critique of the computational theory of mind. PREREQ: PHI 107.

PHI 379 American Slavery and the Holocaust 3 IR

Crosslisted with: JSP 379, PSC 379

An in-depth study of the normative structure of both American Slavery and the Holocaust, focusing upon the ways in which each institution conceived of its victims and the character of the moral climate that prevailed in each case.

PHI 381 Metaphysics 3 Y

Topics such as personal identity, possibility and necessity, the nature of time and space, freedom and determinism, and the distinction between particulars and universals. PREREQ: PHI 107.

PHI 387 Epistemology 3 Y

Topics such as the nature of knowledge, knowledge of the external world, theories of justification, a priori knowledge, skepticism, and the problem of induction. PREREQ: PHI 107.

PHI 391 History of Ethics 3 Y

Ethical writings of such philosophers as Aristotle, Epictetus, Aurelius, Hume, Butler, Kant, Mill, Sidgwick, Nietzsche, Bradley.

PHI 393 Contemporary Ethics 3 Y

Selected problems and trends in recent ethical philosophy. Consideration of such questions as these: What is the nature of moral disagreement? What makes a person's life go well? What makes an action morally right

PHI 394 Environmental Ethics 3 IR

A survey of several main topics in environmental ethics including animal rights, the ethics of climate change, preservation of endangered species, and obligations to future generations.

PHI 395 Philosophy of Art 3 IR

Chief aesthetic theories from Plato to present. Application to literature and the fine arts.

PHI 397 Philosophy of Law 3 IR

Crosslisted with: PSC 375

Central issues in the philosophy of law such as the nature of law and obligation to obey the law; justification of punishment and of state restrictions on individual liberties; justice and the law.

PHI 400 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

PHI 401 Seminar for Philosophy Majors 3 S

Development of skills essential to philosophical research, philosophical writing, and oral presentation. Required of philosophy majors.

PHI 406 Citizenship from Modernity to Globalization 3

Crosslisted with: PSC 406

Offered only in Florence. Citizenship as a major crossroads in European political thought: key thinkers; permutations throughout European history; impact of globalization and European unification on concepts of citizenship, liberty, and justice.

PHI 411 Philosophies of Race and Identity 3 IR

Concepts of race and racial identity, their history, various meanings, and whether they should continue to be used. Political effects of racial identities, racism, integrationism, mixed race identity, and multiculturalism.

PHI 413 Identity and Difference 3 Y

Crosslisted with: PSC 413, WGS 413

Interdisciplinary approach to examine concepts of identity and difference, challenges notions of subjectivity, nation and gender. Philosophical, political, and gender-related dimensions explored. Offered only in Florence.

PHI 415 Roots of Western Civilization 3 S

Offered only in Madrid. Course proposes an in-depth treatment of a selection of Greek and Judeo-Christian classics and ends with discussion of modern works that bond both traditions.

PHI 417 Contemporary Political Philosophy 3 Y

Crosslisted with: PSC 382
Contemporary contractualist, rights-based, and communitarian theories of social justice.

PHI 418 Hegel, Marx, and Nietzsche 3 IR

Double Numbered with: PHI 618
Interrelationships and contemporary debate over interpretations of their major works. Topics include: philosophy of history, human nature, dialectics, theory of knowledge, alienation, concepts of self and freedom. Additional work required of graduate students.

PHI 422 Twentieth Century French and German Philosophy 3 IR

Double Numbered with: PHI 622
Twentieth-century French and German philosophical criticism of the legacy of the Enlightenment and its conceptions of subjectivity and epistemology. Critical theory, hermeneutics, poststructuralism, and psychoanalytically inspired theories. Additional work required of graduate students.

PHI 425 Post-colonialism and Philosophy 3

Crosslisted with: LAS 425
The philosophical analysis and critique of colonialism's representations of other cultures and justifications for intervention, as well as debates over effective forms of resistance.

PHI 435 Modern Judaic Thought 3 O

Crosslisted with: JSP 435, REL 435
The philosophical implications of Judaism's encounter with modernity. Close readings of selected modern Jewish thinkers. Issues and figures vary. R3, 9 credits maximum

PHI 441 Topics in Feminist Philosophy 3 IR

Crosslisted with: WGS 441
Feminist approaches to traditional philosophical questions in various areas, including epistemology, ethics, metaphysics, and philosophy of science. Use of philosophical tools and methods on questions regarding the subordination of women.

PHI 487 History of Epistemology 3 IR

Theories and problems of epistemology through study of their development by such philosophers as Plato, Descartes, Locke, Hume, Kant, Russell, Ayer, Gettier, and Alston.

PHI 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

PHI 493 Contemporary Ethical Issues 3 Y

Philosophical study of a selection of contemporary ethical issues, such as racism, sexism, inequality, violence, and poverty. Junior or senior standing.

PHI 494

Bioethics: Technology/Science/Human Rights 3 S

Offered only in Strasbourg. Examines interface of biological science and ethical concern by employing philosophical principles and procedures first to clarify bioethical problems and then to develop attempts at resolving them. Credit given for PHI 494 or REL 594, but not both.

PHI 495 Senior Capstone Project for Ethics 3 Y

For Ethics majors. Focused on producing a significant research project in ethics related to primary major. Developing important research skills, presenting work in class and participating with classmates for feedback. First offered in Spring 2011
PREREQ: PHI 391, PHI 393.

PHI 499 Honors Thesis 3 S

PHI 500 Selected Topics 1-3 IR

Study of a significant philosopher or philosophical movement. R

PHI 510 Topics in Ancient Philosophy 3 Y

Examination of principal works such as Plato's Sophist or Aristotle's Metaphysics, or of central themes such as weakness of will or knowledge and belief. R

PHI 533 Philosophy of Mind 3 IR

Classical and modern theories on the nature of the human mind.

PHI 550 Selected Topics in Philosophy 1-3 IR

Study of a significant philosophical problem. R

PHI 551 Mathematical Logic 3 IR

Predicate calculus with identity, its relationship to mathematics and to computer theory. Important results concerning independence, consistency, completeness, decidability and computability.
PREREQ: PHI 251 OR MAT/CIS 275.

PHI 552 Modal Logic 3 IR

Systems of modal logic (logic of the terms "necessary" and "possible"). Formalization and evaluation of modal arguments and basic concepts of metatheory and semantics. Related logics.
PREREQ: PHI 252, 551.

PHI 555 Philosophy of Mathematics 3 IR

Diverse ways in which philosophers from Plato to Wittgenstein have understood the concept of mathematics.

PHI 565 Philosophy of Language 3 IR

Concept and phenomenon of language. Logical, epistemological, and metaphysical ramifications of natural language and speech.
PREREQ: PHI 251, 551.

PHI 573 Philosophy of Physical Science 3 IR

Impact of classical mechanics, relativity, and quantum theory on philosophical accounts of space, time, matter, and causality.

PHI 575 Philosophy of Social Science 3 O

Crosslisted with: SOS 575
Philosophical and methodological issues in social and behavioral science. Role of laws in explanation of human action, methodological individualism and holism, functional explanation, value-neutrality, behaviorism, and computer simulation.

PHI 583 Metaphysics 3 IR

Introduction to metaphysical inquiry.

PHI 593 Ethics and the Health Professions 3 IR

Crosslisted with: REL 551
Ethical theories in professional, organizational, and political-economic fields in health care. Specific issues: assisted suicide, professional codes, ethics of "cost-cutting" and justice with respect to care.

PHI 594 Bioethics 3

Crosslisted with: REL 552
Use of ethical theory in thinking about case problems in health care. Moral dilemmas: use of reproductive technologies, abortion, surrogate motherhood, research with humans, refusal and withdrawal of treatment, physician-assisted suicide.

Physics

PHY 101 Major Concepts of Physics I 4 Y

Explores the fundamental laws which govern the universe. Presents overview of basic ideas and contemporary research in physics. No science prerequisites. Knowledge of elementary algebra required. Includes Laboratory.

PHY 102 Major Concepts of Physics II 4 Y

Explores the fundamental laws which govern the universe. Presents overview of basic ideas and contemporary research in physics. No science prerequisites. Knowledge of elementary algebra required. Includes Laboratory.
PREREQ: PHY 101.

PHY 209 Space and Time in Elementary Physics 3 Y

Experimental basis used in Newtonian physics. Topics vary but may include Euclid's theory of space, the ray approximation in optics, Galilean relativity, and exponential change. For students with no prior experience in physics or astronomy and intending to enroll in PHY 211, 212.
COREQ: MAT 194.

PHY 211 General Physics I 3 S

First half of a two semester introduction to classical physics including mechanics and thermal physics. Uses calculus. Knowledge of plane trigonometry required.
COREQ: PHY 221, MAT 285 OR MAT 295.

PHY 212 General Physics II 3 S

Second half of a two semester introduction to classical physics including electricity, magnetism and light.

PREREQ: PHY 211, 221 COREQ: PHY 222, MAT 286 OR MAT 296.

PHY 215 General Physics I (Honors and Majors) 3 Y

Introductory calculus-based physics emphasizing topics important in modern research and technology, for students in the Honors Program, prospective physics major, and others with strong science interests. Newtonian mechanics, chaos, sound and fluids. Student cannot receive credit for both PHY 215 and PHY 211.

PHY 216 Gen Physics II: Honors & Majors 3 Y

Electricity, magnetism and light. Student cannot receive credit for both PHY 216 and 212.

PHY 221 General Physics Laboratory I 1 S

Techniques of laboratory work: treatment of random errors, graphical representation of data. Experimental demonstration of principles of mechanics, thermodynamics, and waves (of vector forces, conservation of momentum and energy, thermal properties of gases).

COREQ: PHY 211 OR 215.

PHY 222 General Physics Laboratory II 1 S

Experimental study of principles of electromagnetism and their application in electrical circuits. Use of electronic instruments, such as the oscilloscope.

COREQ: PHY 212 OR 216.

PHY 250 Physics Journal Workshop 1 Y

Introduction to physics research by reading and critical discussion of articles from the current or recent physics literature. For physics majors and minors; others may enroll with permission of instructor.

PREREQ: PHY 211. R

PHY 270 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

PHY 290 Independent Study 1-6 SI

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

PHY 301 Communicating Quantitative Science: Visualization, Internetics, and Beyond 3

Case studies and criteria for communication of quantitative ideas from science. Selected topics in contemporary science. Preparation and design of graphs and other visualizations, especially for Internet publication. For majors and non-majors.

COREQ: MAT 285 OR MAT 295.

PHY 305 Solar Energy Science and Architectures 3 Y

Properties of solar energy. Photons, blackbody radiation, and the planetary greenhouse effect. Solar thermal, solar electric, and biomass applications.

Architectural and economic implications.

Preq: MAT 285 or equivalent must be taken previously or concurrently.

COREQ: MAT 285.

PHY 307 Science and Computers I 3 Y

An introduction to the use of computers in science: mechanics, planetary motion, black holes, chaos, phases of matter, and neural networks. UNIX, C, Java, and Maple will be introduced. Additional work required of graduate students.

COREQ: PHY 211.

PHY 308 Science and Computers II 3 Y

Continuation of PHY 307. Exploration of topics in computational science using modern programming and visualization techniques. A core component comprises successful completion of computer-based labs.

PREREQ: PHY 307 AND EITHER MAT 285, 286 OR MAT 295 AND 296.

PHY 312 Relativity and Cosmology: Einstein and Beyond 3 Y

Introduces Einstein's special and general relativity. Understanding $E=mc^2$, curved space-time, higher dimensions, and the Big Bang. No science prerequisite. For non-majors and majors. SCI 612 students will develop educational materials for the teaching of relativity.

PREREQ: MAT 285, 295 COREQ: MAT 286, 296.

PHY 315 Biological and Medical Physics 3 Y

Double Numbered with: PHY 615

Signal, energy, and information processing by cells. Evolution; cell structure and function; neurophysiology; biological control, chaos; biological motors, pumps, and receptors; systems analysis, scaling, dimensionality; spectroscopy and biomedical imaging.

Additional work required of graduate students. PREREQ: PHY 212 OR PHY 216.

PHY 317 Stellar and Interstellar Astrophysics 3 O

Introduction to astrophysics, with emphasis on stars and the interstellar medium. Physical laws of gravitation, charged particles, and radiation, applied to nucleosynthesis and stellar formation/evolution. Physical and chemical processes in the interstellar medium. PREREQ: PHY 102. COREQ: MAT 286 OR MAT 296.

PHY 319 Introduction to Astrobiology 3 E

The emergence and development of life in the universe. Topics: elements of astrophysics, origin of life on earth, current research in astrobiology.

PREREQ: MAT 285.

PHY 344 Experimental Physics I 4 Y

Laboratory projects emphasizing mechanics, electromagnetism, and atomic physics.

Projects include chaos in a compass needle, the Franck-Hertz experiment, and the Hall effect.

PREREQ: PHY 211, 212.

PHY 351 Instrumentation in Modern Physics 3 Y

Double Numbered with: PHY 651

Familiarizing students with instrumentation used in modern laboratories. Topics include detectors used in science and medicine, electronic noise mechanisms, computerized data acquisition systems. Independent research projects are encouraged. Additional work required of graduate students.

PREREQ: PHY 221; COREQ: PHY 222.

PHY 360 Vibrations, Waves and Optics 3 Y

Exploration of the rich behavior of vibrating systems. Simple harmonic motion, driven oscillators and resonance, normal modes, Fourier analysis, geometrical optics, diffraction and interference.

PREREQ: PHY 212.

PHY 361 Introduction to Modern Physics 3 Y

Modern physical theories, including relativity, quantum mechanics. Applications to molecular, atomic, and nuclear structures. Principles of lasers, nuclear reactors. Particle accelerators.

PREREQ: PHY 212.

PHY 399 Practicum and Seminar in Physics Education 1-3 S

Student peers assist in a physics class and participate in a physics education seminar. Questioning, curriculum, teaching methods, assessment.

PHY 400 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

PHY 424 Electromagnetics I 3 Y

Vector analysis, electrostatics, Laplace's equation, dielectrics, magnetostatics, magnetic materials.

PREREQ: PHY 212, MAT 397.

PHY 425 Electromagnetics II 3 Y

Faraday's Law, displacement current, Maxwell's equations, plane waves, power flow in waves, reflection and transmission of waves, waveguides, radiation, and antennas.

PREREQ: PHY 424/ELE 324.

PHY 444 Soft Matter 3 E

Introduction to the physics of soft (easily deformable) materials such as polymers, liquid crystals, membranes, and colloids. Learn to appreciate the myriad of phases in the world of squishy physics and their statistical behavior.

PHY 451 Problems of Contemporary Physics 2 Y

Integrated approach to solving physics problems that may cross traditional boundaries between courses. Improve the preparation of students for post-graduate education and physics-related careers.
COREQ: PHY 361.

PHY 462 Experimental Physics II 4 Y

Laboratory projects emphasizing optics and nuclear physics. Projects include diffraction, interferometry, detection of nuclear radiation, interaction of radiation and matter, and nuclear lifetime measurements.
PREREQ: PHY 344.

PHY 470 Experience Credit 1-6 SI

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

PHY 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

PHY 499 Honors Thesis 1-6 SI

PHY 523 Advanced Mechanics 3 E

Moving coordinate systems, systems of particles, mechanics of rigid bodies, normal modes of vibrating systems.
PREREQ: PHY 360.

PHY 531 Thermodynamics and Statistical Mechanics 3 O

Laws of thermodynamics, temperature, work, heat. Thermodynamic potentials and methods. Application to special systems, low-temperature physics. Classical statistical mechanics. Quantum statistics. Connections between thermodynamics and statistical mechanics.
PREREQ: PHY 361.

PHY 567 Introduction to Quantum Mechanics I 4 Y

Problems with classical physics; one dimensional Schrodinger equation, concepts and illustrative problems; N particle systems including separation of center of mass, identical particles, and Pauli principle; Schrodinger equation in three dimensions.
PREREQ: PHY 361, PHY 424/ELE 324.

PHY 568 Introduction to Quantum Mechanics II 3 Y

Angular momentum including raising/ lowering operators and spherical harmonics; hydrogen atom; spin and addition of angular momentum; time independent perturbation theory; structure of and radiation from atoms; scattering; and elementary particles.
PREREQ: PHY 567.

PHY 576 Introduction to Solid-State Physics 3 Y

Crosslisted with: ELE 642
Elementary aspects of physics of solids; crystal lattices and diffraction, phonons and thermal properties in crystals, elementary band theory, and semi-conductor physics.
PREREQ: PHY 567.

PHY 581 Methods of Theoretical Physics I 3 Y

Calculus of variations. Fourier series and integrals. Matrices. Linear vector spaces. Orthogonal polynomials. Sturm-Liouville equations. Singular points of differential equations. Special functions. Distributions.
PREREQ: MAT 511.

Polish

POL 101 Polish I 4 Y

Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Polish. No prior experience or admission by placement testing.

POL 102 Polish II 4 Y

Continuing proficiency-based course which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts. Activities are conducted in Polish.
PREREQ: POL 101.

POL 201 Polish III 4 Y

Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Polish.
PREREQ: POL 102.

POL 202 Polish IV 4 Y

Continuing proficiency-based course which further refines and expands linguistic skills in culturally authentic contexts. Incorporates reading, discussing, and analyzing texts as a basis for the expression and interpretation of meaning. Conducted in Polish.
PREREQ: POL 201.

Political Science

PSC 121 American National Government and Politics 3 S

American political institutions. Basic principles embedded in structure and practices of American government. Practical consequences of this political system for the citizen. Credit is given for PSC 121 or PSC 129, but not both.

PSC 122 American State and Local Government and Politics 3 IR

Role of state and local politics in American politics. Changing notions of proper political process and governance. Nature of the political process. State and local interactions. Politics and policy pursuance.

PSC 123 Comparative Government and Politics 3 Y

Comparison of selected governmental institutions, individual and collective political actors, and issues across the industrialized and developing world. Particular attention to dynamics of socioeconomic and political change.

PSC 124 International Relations 3 S

Foreign policy, decision making, comparative foreign policy, international transactions, and the international system. Credit is given for PSC 124 or PSC 139, but not both.

PSC 125 Political Theory 3 Y

Introduction to theories of major modern political philosophers (Locke, Rousseau, Hume, J.S. Mill, Marx). Contemporary theories of liberty, justice, and equality.

PSC 129 American National Government and Politics (Honors) 3 Y

American political institutions and their founding. The public role in a democratic regime. Ability of contemporary arrangements to meet the demands of the modern world. Credit is given for PSC 121 or PSC 129, but not both.

PSC 139 International Relations (Honors) 3 IR

Major world views which comprise contemporary international relations. Lectures, readings, journal writing, and small group discussion. Credit is given for PSC 124 or PSC 139, but not both.

PSC 200 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

PSC 202 Introduction to Political Analysis 3 S

Introduction to important political science concepts; basics of political argumentation and reasoning; and basic quantitative research and analysis techniques.

PSC 270 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

PSC 290 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

PSC 300 Selected Topics 1-3 S

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

PSC 302 Environmental Politics and Policy 3 Y

The environmental policy process and the politics that influence the formulation and adoption of environmental policies in the United States.

PREREQ: PSC 121.

PSC 303 The Rise of the National Government 3 IR

Explores the reasons for the transition in America from resistance to a strong national government to grudging acceptance of it. Evolving notions of the desired role of the national government, and how changing economic conditions and political alignments affect that role.

PSC 304 The Judicial Process 3 Y

American legal structure and process: policy making by courts, relations with other branches of the national government, and the changing role of the Supreme Court in our federal political system.

PREREQ: PSC 121.

PSC 305 The Legislative Process and the U.S. Congress 3 Y

Functions of the legislative branch: representation, control of the public purse, and executive oversight. Recent changes brought about by electoral forces and internal reforms.

PSC 306 African American Politics 3 Y

Crosslisted with: AAS 306

Introduction to the African American experience in the American political system, from the colonial period to the present. Organization/leadership, federal institutions/relations, sociopolitical movements, and electoral politics.

PSC 307 The Politics of Citizenship 3 Y

How governments understand membership through citizenship laws and practices. Includes the history of citizenship, evolution of modern citizenship, migration, and "post-national" citizenship.

PSC 308 The Politics of U.S. Public Policy 3 IR

Relationship between American political institutions, politics and public policy. Significance of public policies for democratization in the U.S., highlighting dynamics of race, class, and gender. Development and implementation of policies.

PSC 309 Interest Group Politics 3 IR

Uses theoretical and real world materials to examine the strengths and weaknesses of interest groups in American politics. The role of groups in shaping public interest and influencing policy decisions.

PREREQ: PSC 121.

PSC 311 American Political Parties 3 Y

Historical and contemporary roles of political parties in American government and politics.

PSC 312 Urban Government and Politics 3 IR

Changes in populations, notions of governance, and means of governance in city and metropolitan politics. Effects of political arrangements on responses to people and the public policies pursued. Role of private power.

PSC 313 Campaign Analysis 3 E

In-depth analysis of specific campaigns. Review of literature, followed by analysis, involving: media review, targeting analyses, survey writing, polling, survey analysis, exit polling, and review of election results. Acquisition and application of skills.

PSC 314 Public Opinion and Electoral Behavior 3 IR

American mass public; origins, nature, effects of its political beliefs, and patterns of its voting behavior.

PSC 316 The Supreme Court in American Politics 3 Y

The Court's dual character as a legal and political institution. Explores the Court's decision-making process and the impact of those decisions on politics and policy.

PSC 317 Local Internship 3 S

Students work in conjunction with members of Congress, state legislature, or in local political campaigns. Representatives of these offices come to seminars for discussions about working in government and politics.

PSC 318 Technology, Politics, and Environment 3 Y

Advanced technology as a focal point of governmental and political conflict in the United States and other nations. Interplay of technology and politics as a struggle over who will control the future and for what ends.

PSC 319 Gender and Politics 3 Y

Crosslisted with: WGS 319

Relationships between gender and American political institutions, law, and policymaking processes. How social movements based on gender, prevailing gender ideologies, and gender relations have shaped American politics. Exploring how the American state has shaped the political meanings and relative positions of power associated with men and women.

PSC 323 Politics of the Executive Branch 3 IR

In-depth examination of U.S. executive branch, including its historical development and current practices in Executive Office of the President and the executive bureaucracy. Individual presidents, executive-branch politics, and policymaking.

PSC 324 Constitutional Law I 3 Y

Introduction to American constitutional interpretation. Historical survey of basic Supreme Court doctrines focusing on the first 150 years of judicial action. The Court's role as a political institution.

PSC 325 Constitutional Law II 3 Y

Contemporary constitutional interpretation, focusing on the Bill of Rights and the fourteenth amendment. Issues of race, gender, privacy, property, free speech, religious diversity, and political representation.

PREREQ: PSC 324.

PSC 326 Foundations of American Political Thought 3 IR

Crosslisted with: HST 383

American political thought from the Puritans to Lincoln. American Revolution, establishment of the Constitution, and Jeffersonian and Hamiltonian systems.

PSC 327 Modern American Political Thought 3 IR

Crosslisted with: HST 342

American political thought from the impact of Darwinian science to the present. Basic thought patterns of 20th-century public life and philosophical foundations of contemporary political movements.

PSC 328 American Social Movements 3 IR

Crosslisted with: WGS 318

Social movements were always integral to American politics. Includes emergence, strategies, political context and influence of temperance, abolition of slavery, women's suffrage, labor, civil rights, anti-war, feminism, nuclear freeze, gay rights, and global justice movements.

PSC 329 The Modern American Presidency 3 Y

Crosslisted with: HST 341

Evolution, operation, and perceptions of the American presidency during the last quarter-century. Modern chief executives and factors contributing to their success or failure.

PSC 331 Government and Politics of Canada 3 IR

Political culture and socialization in Canada. The party system elections and interest groups. The new constitution and parliament, the executive, the judicial system, and Canadian federalism.

PSC 332 Politics of Postcommunist Europe 3 IR

Explores the politics of former communist countries in Europe, their transitions to democracy, economic reforms, and accession to the European Union. Inquires into the legacies of the communist past for current politics, society, and economy.

PSC 333 Politics of Latin America 3 Y

Crosslisted with: LAS 333

Political processes and institutions in Latin America. The region's experience with modernization.

PSC 335 Politics of East Asia 3 Y

Domestic and international politics of East Asia broadly defined. Political development and structure of major countries: Japan, Korea, and China. Politics of public policy, international, and transnational relations in the region.

PREREQ: PSC 123.

PSC 336 Political Leadership 3 IR

How political leaders are recruited and govern in a wide range of settings from city mayor to head of a national government. Leadership style, relations with constituents, and the organization of the governance system.

PSC 337 Political Psychology 3 IR

Principles of social and cognitive psychology applied to political life. How political beliefs are developed and maintained, how such beliefs affect political behavior, and how individuals matter in policymaking as well as in the mobilization of political movements.

PSC 338 Comparative Political Parties 3 IR

How and why political parties form. The impact of electoral rules, social structures, and other factors on their organization, influence, and competition. Comparison of parties and national party systems around the world.

PSC 339 Contemporary Political Transitions 3 IR

The underlying forces and processes of political regime change in the modern world.

PSC 341 Politics of Africa 3 Y

Crosslisted with: AAS 341
Historical foundations of the move towards political freedom, democracy and self rule in Africa. Dynamics of the political process.

PSC 342 Religion and Politics in the Israeli-Palestinian Conflict 3 SI

Crosslisted with: JSP 342, MES 342, REL 342
Considers the extent to which religion matters in an enduring ethno-nationalist conflict. Approaches the Israeli-Palestinian conflict from an interdisciplinary perspective that explores the intersection of religion and politics.

PSC 343 Politics of Western Europe 3 Y

Political institutions, individual and collective actors, and issues in Great Britain, France, Germany, Italy, Spain, and European Union. The impact of historical developments on current politics.
PREREQ: PSC 124.

PSC 344 Politics of the Middle East 3 Y

Crosslisted with: MES 344
Religious, political, economic, and social dimensions of life in modern Middle East. Legacy of Islam, encounter with Western modernity, Arab-Israeli conflict, and political economy of the region.

PSC 345 Islam and Politics in Asia 3 IR

Crosslisted with: MES 345
Survey of the diverse and protean role Islam plays in Asian public life by analyzing the variegated cultural, political, religious, and social milieu that it has encountered in Central, South, and Southeast Asia.

PSC 346 Comparative Third World Politics 3 Y

Crosslisted with: AAS 346
Examines thematically and comparatively the political systems of South America, Asia, and Africa, exploring topics such as colonization, decolonization, nation-building, the postcolonial state and its institutions, the recent wave of democratization, and the challenges of socioeconomic development.

PSC 347 Politics of Russia 3 Y

Politics of Russia and the former Soviet Union. Political institutions, and political, economic, and social change, particularly since 1991.

PSC 348 Politics and the Military 3 IR

The military's role in the modern state and in modern society. Broad geographic coverage, including the United States, Europe, Latin America, Africa, the Middle East, and Asia.

PSC 349 Politics of Iran 3 IR

Crosslisted with: MES 349
Historical and theoretical understanding of modern Iranian politics and society from the late 19th century to the present time.

PSC 350 Problems in International Relations 3 IR

Selected problems and issues. Specific topics chosen by the instructor.
PREREQ: PSC 124. R

PSC 352 International Law 3 IR

Fundamental principles and recognized rules that make up international law concerning conduct of nations. Protection of nationals abroad, jurisdiction in territorial waters and on high seas, rights and duties of diplomats and consuls, and the law of treaties.

PSC 353 International Organization 3 Y

Causes and consequences of collective actions taken by state, intergovernmental, and transnational nongovernmental individual and collective actors. May include global and regional level issues of (human) security, economic and social development, environmental protection, and resource management.

PSC 354 Human Rights and Global Affairs 3 IR

Human rights are today a focal point of rhetorical contestation among states, intergovernmental organizations, and transnational networks. This seminar surveys the opportunities and limits of human rights language in promoting social and political change.

PSC 355 International Political Economy 3 IR

Institutions and politics of international economic relations. Trade, investment, macro-economic policy coordination, economic development, global resource issues, and the causes and consequences of global economic integration.

PSC 356 Political Conflict 3 Y

Crosslisted with: WGS 356
Theory and practice of political conflict and peacemaking. Issues may include class, race, gender and ethnicity, war, terrorism, and protest.

PSC 357 U.S. Foreign Policy 3 Y

Diplomacy of the United States toward major areas or powers, i.e., Latin America, Far East, and the Soviet Union. National defense, trade, and international organization.

PSC 358 Inter-American Relations 3 Y

Crosslisted with: LAS 358
United States-Latin American relations. Evolution of contemporary issues in inter-American relations. Foreign policies in the region.

PSC 359 Foreign Policymaking 3 IR

How governments and intergovernmental organizations make foreign policy. Formulation of policy, selection among policy strategies, implementation, and evaluation of policy outcomes. Contemporary foreign policies.

PSC 361 Politics in the Cyber-Age 3 Y

The impact of the information technology revolution on contemporary domestic and global political systems.

PSC 362 Religion, Identity and Power 3

Crosslisted with: REL 355, SOC 362
Examines ascendancy of religious movements; prominence of religious ideas; secularization and religion as a political force; conceptual and historical issues in relation to religious ideas and movements, including various Islamic revivals and the Christian right. Offered in London only.

PSC 363 Ethics and International Relations 3 O

Crosslisted with: PHI 363
The role of ethical concerns, imperatives, and restraints in international relations. Includes realism, just war theory, the ethics of nuclear deterrence, and other topics at the discretion of the instructor.

PSC 364 African International Relations 3 IR

Crosslisted with: AAS 364
The place of Africans in the international system; specific issues emanating from the decolonization process. Issues of militarism, humanitarianism, peacekeeping, and genocide; challenges of globalization.
PREREQ: PSC/AAS 341.

PSC 365 International Political Economy of the Third World 3 Y

Crosslisted with: AAS 365
Political and economic problems developing countries face in international economic relations, attempts to solve them. Discusses the making of the international system, the "third world," globalization, trade, debt, multinational corporations, multilateral lending agencies (IMF, World Bank).

PSC 366 Representations of the Middle East 3 IR

Crosslisted with: MES 366

The politics of "gazing" and cultural imagination through critical analysis of how the mass media articulates, transmits, promotes and legitimizes knowledge and information about the Middle East.

PSC 367 Oil, Water and War 3 IR

Crosslisted with: MES 367

Examines current level of knowledge about historical connections among war and the resources of petroleum and fresh water. Also looks at how alternative claims about these goods will be expressed in the future.

PSC 368 Islam and the West 3 Y

Crosslisted with: HST 368, MES 368

Topics include globalization and interdependency of faiths, the "clash of civilizations", relations between religion and state in Islam and Christianity and whether it is possible to separate the world into monolithic entities "Islam" and "West". Offered in London only.

PSC 369 Global Migration 3 IR

How should local communities, national governments, and international institutions respond to economic migrants and refugees? Are their policies effective? These questions will be explored through historical and contemporary perspectives from around the world.

PSC 371 Democratic Theory and Politics 3 IR

Democracy as a political concept and political process, in a comparative context. Some critiques and challenges facing democratic theory and practice.

PSC 372 Marxist Theory 3 IR

Fundamentals of Marxism through the original writings of Marx and Engels. Several interpretations of the various facets of Marxist theory, as developed by social democrats, Leninists, and other socialist thinkers.

PSC 373 Political Philosophy: The Social Contract Tradition and its Critics 3 Y

Crosslisted with: PHI 317

Political obligation in the writings of the three major social contract theorists, Hobbes, Locke, and Rousseau. Additional reading from their critics such as Burke, Mill, and Marx.

PSC 374 Law and Society 3 IR

Crosslisted with: WGS 374

Interaction of law with social values, customs, and organization. Relationship between a society's law and its broader environment.

PSC 375 Philosophy of Law 3 IR

Crosslisted with: PHI 397

Central issues in the philosophy of law such as the nature of law and obligation to obey the law; justification of punishment and of state restrictions on individual liberties; justice and the law.

PSC 376 Revolution and Civil Violence 3 IR

Causes and consequences of revolutions.

Political significance of riots. Psychology of revolutionary participation. Changing historical patterns of political violence. Western and non-Western forms of civil strife.

PSC 377 Religion and Politics 3 IR

Reciprocal relations between religious groups and political systems, especially in the United States. Religious groups as the objects of policy decisions, as sources of governmental legitimacy, and as agents of political and social change.

PSC 379 American Slavery and the Holocaust 3 IR

Crosslisted with: JSP 379, PHI 379

An in-depth study of the normative structure of both American Slavery and the Holocaust, focusing upon the ways in which each institution conceived of its victims and the character of the moral climate that prevailed in each case.

PSC 381 Political Fiction and Film 3 IR

The powers of fictional narrative to depict and explain politics. Content varies. Possible themes include comparison of religion, science, and politics; totalitarian movements; political assassinations; political morality and power.

PSC 382 Contemporary Political Philosophy 3 Y

Crosslisted with: PHI 417

Contemporary contractualist, rights-based, and communitarian theories of social justice.

PSC 383 Civil Society and Democracy 3 IR

Understanding the politics that occurs between individual citizens and citizens groups. Is civic trust diminishing? How civil society functions in new democracies, the impact of suburbanization, religion, and consumerism.

PSC 384 Sexuality and the Law 3 E

Crosslisted with: QSX 384

Examines politically significant legal debates regarding gender and sexuality. Issues covered may include privacy rights, discrimination on the basis of sexual orientation and gender identity, family law and parental rights, and same-sex marriage.

PSC 385 Rationality and Politics 3 IR

Introduction to the concept of technical rationality and its role in contemporary political science.

PSC 386 Gender, Militarism, and War 3 Y

Crosslisted with: SOC 354, WGS 354

Militarism and war are examined by focusing on their relationship to gender. What does gender have to do with war? How do masculinity and femininity along with race work to create soldiers and enemies?

PSC 400 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

PSC 401 Government and Politics in Great Britain 3 S

Political geography, constitutional principles, governmental institutions, and political behavior in Great Britain. Comparisons with other western European political systems. Offered only in London.

PSC 402 Government and Politics in Italy Government and Politics of Italy 3 S

Political geography, constitutional principles, governmental institutions, and political behavior in Italy. Comparisons with other western European political systems. Offered only in Florence.

PSC 403 Government and Politics in France 3 S

Political geography, constitutional principles, governmental institutions, and political behavior in France. Comparisons with other western European political systems. Offered only in Strasbourg.

PSC 404 Government and Politics in Spain 3 S

Political geography, constitutional principles, governmental institutions, and political behavior in Spain. Comparisons with other western European political systems. Offered only in Madrid.

PSC 405 Politics of the European Union 3

Politics of European integration from a variety of perspectives: theoretical, historical, institutional, and policy-making. Fundamental post-war political process in modern-day Europe. Offered only in Florence.

PSC 406 Citizenship from Modernity to Globalization 3

Crosslisted with: PHI 406

Offered only in Florence. Citizenship as a major crossroads in European political thought: key thinkers; permutations throughout European history; impact of globalization and European unification on concepts of citizenship, liberty, and justice.

PSC 407 Political Integration and Disintegration in Western Europe 3 IR

Crosslisted with: SOS 407

Origins of the modern territorial states of western Europe. Growth of supranational institutions, such as the European Economic Community, and their impact on European economic and political development. Offered only in Florence.

PSC 408 Comparative Social Movements 3 IR

Crosslisted with: SOS 408

Origin and policy impact of contemporary and historical European movements for social and political change. Labor movements, Eurocommunism, feminism, national socialism, fascism, and peace movements. Offered only in Florence.

PSC 409 The European Union 3 Y

Creation and current workings of the European Union. The relationship between the member states and issues such as a United States of Europe. Mandatory trip to Brussels (EU Commission, Parliament, and U.S. EU delegation). Offered in London only.

PSC 411 Senior Seminars 3 IR

Integrates student coursework by providing in-depth analysis of a particular topic. Recommended seminar choice is one in a subfield of the discipline in which the student has some prior preparation.

PSC 412 Global Governance: The United Nations System 3

Crosslisted with: IRP 412

The theory and practice of global governance and international diplomacy through an in-depth study of the United Nations system. Critique readings and discuss current UN-related events. Fulfills the IR capstone for International Law and Organizations (ILO). Permission of instructor.
PREREQ: PSC 124.

PSC 413 Identity and Difference 3 Y

Crosslisted with: PHI 413, WGS 413

Interdisciplinary approach to examine concepts of identity and difference, challenges notions of subjectivity, nation and gender. Philosophical, political, and gender-related dimensions explored. Offered only in Florence.

PSC 414 European Identity Seminar 2 S

Eleven-day interdisciplinary field studies seminar explores the multi-layered cultural and political identities in contemporary Europe, their overlapping (and at times, contradictory nature), and their effect on political and social developments. Offered in Strasbourg only. R1, 4 credits maximum

PSC 418 Comparative Public Policy in Practice 3 Y

Crosslisted with: PAF 418

Students gain inside knowledge of London through assignment to an organization related to a student's major and interests. Weekly lectures and seminars explore the wider social and political context in which the organizations are operating. Offered in London only.

PSC 424 Dictatorships, Human Rights, and Historical Memory in the Southern Cone 3 S

Crosslisted with: HST 424, IRP 424, LAS 424
Offered only in Santiago. The time period (1940-present) and its significance and contributions to the configuration of social, political and economic aspects of Chile today. Relies on primary sources, comparisons within the Southern Cone, and a focus on US role and influence during this period.

PSC 425 Hong Kong in the World Political Economy 3 S

Offered only in Hong Kong. Role of Hong Kong in world political economy since creation by British after Opium Wars, to position as leading export economy and its retrocession to China in 1997.

PSC 427 Policy Seminar/Contemporary Europe 3 S

Offered only in Strasbourg. Course gives a coherent contemporary picture of Europe in political/social/economic area and position in the world, with particular emphasis on the European Union.

PSC 428 Contemporary Issues in Chile and Latin America 2 S

Crosslisted with: IRP 334, LAS 334

Offered only in Santiago. This seminar features in-situ lectures and activities in Chile, Argentina and Uruguay introducing important political, sociological and environmental issues in the Southern Cone region.

PSC 429 European Human Rights 3 S

Offered only in Strasbourg. Introduction to current European human rights law. Through study of European Convention on Human Rights, students learn about culture/morals/values of peoples of Europe.

PSC 431 China in Transition 3 S

Offered only in Beijing. Seminar examines the unprecedented, multi-faceted transitional changes occurring in China since the late 1970s. Impact of reforms on China's external relations.

PSC 450 Undergraduate Research Program 1-4 S

R

PSC 453 Twentieth Century Europe 3

Crosslisted with: HST 453

Politics, society, war, and peace in Europe, 1919-1992. Nazi Germany, WW II, the Cold War, post-war reconstruction, social and economic transformations, and the revolutions of 1989 in Eastern Europe. Offered only in Florence.

PSC 470 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

PSC 471 Internships: International, National, State 3 S

Internships spent off campus in Washington, a state capitol, or an international or foreign organization. Proposal required; faculty sponsor must be arranged. May be counted toward major or minor by petition.

PSC 473 London Seminar 6 Y

British political issues and institutions combined with interviews with leaders of Parliament, the national administration, political parties, the news media, and interest groups. Five weeks in London, England, during the summer.

PSC 489 Readings in Political Science (Honors) 1-6 S

Directed tutorial-type program of readings in selected aspects of political science.

PSC 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

PSC 495 Distinction Thesis Seminar in Political Science I 3 Y

Individual research work in conjunction with seminar participation guided by faculty seminar instructor and individual mentors. Defining thesis projects. Senior political science students only. Permission of instructor.

PSC 496 Distinction Thesis Seminar in Political Science II 3 Y

Thesis students present ongoing research, constructively engaging with other thesis writers, and working with faculty mentor to complete research. Individual research work in conjunction with seminar participation. Senior political science students only. Permission of instructor.
PREREQ: PSC 495.

PSC 499 Honors Thesis 3-6 S

PSC 500 Selected Topics 1-3

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

Portuguese

POR 101 Portuguese I 4

Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Portuguese. No prior experience or admission by placement testing.

POR 102 Portuguese II 4

Continuing proficiency-based course which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts. Activities are conducted in Portuguese.

POR 201 Portuguese III 4

Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Portuguese.

POR 202 Portuguese IV 4

Continuing proficiency-based course which further refines and expands previously acquired linguistic skills in culturally authentic contexts. Incorporates reading, discussing, and analyzing texts as a basis for the expression and interpretation of meaning. Activities are conducted in Portuguese.

Psychology

PSY 205 Foundations of Human Behavior 3 S

Fundamental principles of mental life and human behavior. Significance of psychology in human relationships and self-understanding.

PSY 209 Foundations of Human Behavior/ Honors Section 3 S

Honors section of PSY 205

PSY 223 Introduction to Biopsychology 3 IR

Neurological, chemical, and hormonal determinants of human and animal behavior. Sensory communication, learning and memory, motivation and memory, motivation and emotion, sleep behavior genetics, animal behavior, and development topics. PREREQ: PSY 205 OR 209.

PSY 252 Statistical Methods II 3 S

Distributions, graphs, exploratory data analysis, and descriptive statistics, sampling and experiments Sampling distributions. Correlation and regression. Confidence intervals and significance tests for measured data and count data. Computer applications. PREREQ: STT 101 OR MAT 121 OR 221 OR COMPLETION OF A TWO SEMESTER CALCULUS SEQUENCE (E.G., MAT 285 AND 296 OR MAT 295 AND 296.

PSY 270 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. PREREQ: PSY 205 OR 209. R

PSY 274 Social Psychology 3 S

Introduction to scientific study of the social behavior of individuals; experimental approach. Social influence, conformity, social perception, attitude changes, small groups, and collective behavior.

PSY 290 Independent Study 1-6 S

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. PREREQ: PSY 205 OR 209.. R

PSY 291 Research in Clinical/Health Psychology 1-6 S

Research including the prevention/treatment of alcohol and other substance use disorders, behavioral aspects of HIV/AIDS, religious/spiritual/psychological aspects of cardiovascular disorders, psychological aspects of tobacco addiction, and stress and coping. PREREQ: PSY 205 OR PSY 209. R5, 6 credits maximum

PSY 292 Research in Cognitive Neuroscience Psychology 1-6 S

Research including changes in cognitive functioning, information processing, and memory associated with aging; neurobiology of learning; computational neuroscience and quantitative models of cognitive declines. PREREQ: PSY 205 OR PSY 209. R5, 6 credits maximum

PSY 293 Research in Developmental Educational Psychology 1-6 S

Research including neurological and family factors related to children's health and well-being, identification/treatment of children with developmental problems, school-based interventions for children's academic and behavioral problems. PREREQ: PSY 205 OR PSY 209. R5, 6 credits maximum

PSY 294 Research in Social Personality Psychology 1-6 S

Research including psychological prejudice, social stigma, interpersonal perception, accuracy in impression formation, intergroup relations, motivational aspects of social cognition, gender, social/personality development across the lifespan, and forensic psychology. PREREQ: PSY 205 OR PSY 209. R5, 6 credits maximum

PSY 313 Introduction to Research Methodology 3 S

Logic and methods of psychological research. Development of research questions, selection of appropriate methods, and interpretation of results. Statistical background not needed. PREREQ: PSY 205 OR 209.

PSY 315 Drugs and Human Behavior 3 S

Effects of psychoactive drugs on human behavior. Basic pharmacology and neurobiology, history, mechanism of action, short- and long-term effects, use and abuse of various psychoactive drugs. PREREQ: PSY 205 OR 209.

PSY 321 Introduction to Sensation and Perception 3 O

Common properties of sensory and perceptual systems and their physiological bases, emphasizing information processing. PREREQ: PSY 205 OR 209.

PSY 322 Cognitive Psychology 3 Y

Means by which humans extract information from the environment. Feature extraction and pattern recognition, mechanisms of selective attention, and encoding and retrieval in short-term and long-term memory. PREREQ: PSY 205 OR 209.

PSY 323 Brain and Behavior 3 Y

Basic functions of the brain and manner in which they relate to behavior. Methodology: brain stimulation, recording, and ablation. PREREQ: PSY 223 AND PSY 205 OR 209.

PSY 324 Developmental Biopsych 3

PREREQ: PSY 205 OR 209.

PSY 329 Biopsychological Perspectives on Women's Health 3 E

Crosslisted with: WGS 329
Psychoanalytic and evolutionary theories of gender and adaptive fitness; psychoneuroimmunological perspectives on sexually influenced disease processes, aging, and biopsychological influences on women's health. PREREQ: PSY 205 OR 209.

PSY 331 Laboratory in Sensation and Perception 2 O

Techniques and experimental design for research in human sensation and perception. Develop skills in conducting experiments, designing research projects, and writing research reports. PREREQ: PSY 205 OR 209, 321; OR COREQ: PSY 321.

PSY 332 Laboratory in Cognitive Psychology 2 Y

Experimental design and techniques for research in human memory and cognition. Students conduct class research studies. PREREQ: PSY 205 OR 209, 322; COREQ: PSY 322.

PSY 334 Laboratory in Developmental Biopsychology 2 Y

Observing and quantifying changes in ethologically relevant behaviors during development. Effects of early experience on visual, olfactory, and exploratory behaviors. PREREQ: PSY 205 OR 209, PSY 324; OR COREQ: PSY 324.

PSY 335 Psychology of Childhood 3 S

Principles of psychological development and problems of adjustment during childhood. Intellectual, social, and emotional development. PREREQ: PSY 205 OR 209.

PSY 336 Psychology of the Adolescent 3 S

Characteristics, needs, and problems of adolescence. Principles of psychology important to those who guide and teach adolescents. PREREQ: PSY 205 OR 209.

PSY 337 Psychology of Adult Life: Maturity and Old Age 3 S

Adulthood life span from developmental perspective. Cognitive, social, biopsychological, and personality development. Psychosocial forces affecting adult development and aging in contemporary American society. PREREQ: PSY 205 OR 209.

PSY 353 Psychological Measurement 3 IR

Double Numbered with: PSY 653
Principles of measurement with respect to the development and use of norm referenced and criterion referenced tests. Issues related to test bias and assessment. Permission of Instructor. PREREQ: PSY 205 OR 209.

PSY 365 Educational Psychology 3 IR

Behavior in school situations. Analysis and application of principles of learning, motivation, and control of conduct. PREREQ: PSY 205 OR 209.

PSY 373 Human Memory 3 Y

Scientific study of human memory. Focus on quantitative effects of episodic memory tasks. Free recall, serial recall, paired associates, recognition memory, recency and associative effects. Theoretical perspectives including Atkinson and Shiffrin model. Cognitive neuroscience of memory. PREREQ: PSY 205 OR 209 AND PSY 322 OR COG 301..

PSY 375 Cross-Cultural Psychology 3 IR

Comparative analysis of psychological research conducted among non-Western and Euro-American peoples. Influence of cultural variables on emotional and cognitive development, perception, socialization, and group behavior. PREREQ: PSY 274 AND PSY 205 OR 209.

PSY 376 Human Behavior and Public Policy 3 SI

Search for relevance in psychological research techniques, findings, and theories. Contemporary social issues to which psychology potentially contributes.
PREREQ: PSY 274 AND PSY 205 OR 209.

PSY 379 The Social Psychology of Stigma 3 Y

Current social psychological research on why some groups are devalued, how individuals are affected by and cope with being members of such groups, and interactions between stigmatized and non-stigmatized individuals.
PREREQ: PSY 205 OR PSY209, PSY 274.

PSY 382 Health Psychology 3 Y

Psychological, behavioral, and social influences on health and illness. Why people stay healthy, why they become ill, and how they respond when they do get ill.
PREREQ: PSY 205 OR 209.

PSY 383 Laboratory in Health Psychology 3 IR

Applied study of research questions, techniques, methods, and practices in the field of health psychology.
PREREQ: PSY 205 OR PSY 209, PSY382 OR COREQ: PSY 382..

PSY 384 Health and Behavior 3 IR

Psychological theory and research regarding health behaviors; contrasts public health and individual models of behavior initiation, prevention, change; considers implications for living a healthy life.
PREREQ: PSY 205 OR 209, 252, 313.

PSY 392 Stress and Health 3 Y

An integration of the psychological, social and biological factors linked to the impact of stress on health and well-being and examination of stress management methods.
PREREQ: PSY 205 OR 209.

PSY 393 Personality 3 S

Organization, motivation, and dynamics of human behavior.
PREREQ: PSY 205 OR 209.

PSY 395 Abnormal Psychology 3 Y

Abnormal psychology in relation to normal psychology.
PREREQ: PSY 205 OR 209.

PSY 398 History and Systems of Psychology 3 IR

Developments from the 18th through mid-20th centuries, including major systems and leading figures. Designed for psychology majors who plan to apply to graduate school. Permission of instructor.
PREREQ: PSY 205 OR 209.

PSY 400 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester.
PREREQ: PSY 205 OR 209. R

PSY 415 Introduction to Clinical Psychology 3 Y

Introduction to the field of clinical psychology. Roles, theories, research methods, evaluation, intervention, ethics, cultural diversity, and areas of specialization which may include health, neuropsychology, forensic psychology, child psychology, and addictions.
PREREQ: PSY 205 OR PSY 209, PSY 313.

PSY 425 Internships in Clinical Psychology 3 Y

Faculty supervised internship experiences in mental health, social service, and health care settings. Assessment and intervention strategies for children and adults; report writing skills; professional ethics; stigma and mental illness; overview of mental health professions. Psychology majors only.
PREREQ: PSY 205 OR 209.

PSY 426 Cognitive Neurochemistry 3 IR

Double Numbered with: PSY 626
Neurochemical pharmacology and cognitive decline. Organization of neurotransmitter systems in mammalian brain, neurochemical approaches to cognitive disorders, measurement of neurotransmitters in previously frozen rat brain tissue. Additional work required of graduate students. Permission of Instructor.
PREREQ: PSY 205 OR 209, PSY 223.

PSY 431 Alcohol Use and Abuse 3 IR

Double Numbered with: PSY 631
Psychological theory and research on alcohol use and the development of abuse and dependence. Considers controversial topics related to alcohol abuse prevention, regulation, and treatment. Permission of Instructor.
PREREQ: PSY 205 OR 209, PSY 274 OR 393.

PSY 432 Behavioral Analysis in Children 3 Y

Principles and strategies of applied behavior analysis as an approach to skill training and behavior management with children and youth. Intended for students who plan to have responsibility for children either professionally or personally.
PREREQ: PSY 205 OR 209.

PSY 437 Cognition and Aging 3 SI

Research and theory on the effects of aging and individual differences on basic cognitive functions, intelligence, wisdom, and cognitive performance in everyday situations.
PREREQ: PSY 337 AND PSY 205 OR 209.

PSY 442 Research Methods in Child Psychology 3 IR

Methods used in research in child and adolescent development. Training in design, conduct, analysis, interpretation, and writing of research. Ethical issues.
PREREQ: PSY 205 OR 209, 252, PSY 335 OR 336 OR 432 OR 445 OR 446.

PSY 443 Laboratory in Child Psychology 2 IR

Social, cognitive, and personality development. Design and implementation of research projects.
PREREQ: PSY 442 OR COREQ: PSY 442.

PSY 445 Behavior Disorders in Children 3 Y

Introduction to developmental and behavioral problems of children and adolescents; review of clinical methods for assessing and treating these disorders.
PREREQ: PSY 205 OR 209, 335.

PSY 446 Pediatric Psychology 3 IR

Interdisciplinary course addressing physical, cognitive, social, and emotional functioning and development as related to health and illness issues in children, adolescents, and families.
PREREQ: PSY 205 OR 209, PSY 335.

PSY 447 Psychology of Childhood Reading Disorders 3 IR

Psychological theory and research on childhood reading disorders. Introduction to language, visual, and neurological factors hypothesized to interfere with reading acquisition. Critique of empirical research related to prevention and intervention techniques.
PREREQ: PSY 205 OR 209, 335.

PSY 470 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing.
PREREQ: PSY 205 OR 209. R

PSY 471 Experimental Social Psychology 3 IR

Research methods in experimental analysis of human social behavior. Training in design, conduct, analysis, interpretation, and writing of research. Ethical issues associated with this research.
PREREQ: PSY 205 OR 209; PSY 252, 274.

PSY 472 Laboratory in Social Psychology 2 IR

Laboratory studies of social behavior, involving both individual and group performance: impression formation, limitation, cooperation, decision making, and problem solving.
PREREQ: PSY 205 OR 209, PSY 252, 274, 471 OR COREQ: PSY 471.

PSY 474 Forensic Psychology 3 IR

Psychological aspects of the criminal justice system. Case examples illustrating theory and practice of forensic issues in criminal investigation and courtroom procedures.
PREREQ: PSY 205 OR 209.

PSY 475 Social Influences on Human Sexual Behavior 3 IR

Double Numbered with: PSY 675

Theory and research linking social and cultural variables with the sex-related attitudes and behaviors of individuals. Importance of social learning as the major determinant of sexual motivations and variations in sexual preferences. Additional work required of graduate students. Permission of Instructor. PREREQ: PSY 205 OR 209; PSY 274.

PSY 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. PREREQ: PSY 205 OR 209. R

PSY 491 Research in Clinical/Health Psychology 1-6 S

Research including the prevention/treatment of alcohol and other substance use disorders, behavioral aspects of HIV/AIDS, religious/spiritual/psychological aspects of cardiovascular disorders, psychological aspects of tobacco addiction, and stress and coping. PREREQ: PSY 205 OR PSY 209. R5, 6 credits maximum

PSY 492 Research in Cognitive Neuroscience Psychology 1-6 S

Research including changes in cognitive functioning, information processing, and memory associated with aging; neurobiology of learning; computational neuroscience and quantitative models of cognitive declines. PREREQ: PSY 205 OR PSY 209. R5, 6 credits maximum

PSY 493 Research in Developmental Educational Psychology 1-6 S

Research including neurological and family factors related to children's health and well-being, identification/treatment of children with developmental problems, school-based interventions for children's academic and behavioral problems. PREREQ: PSY 205 OR PSY 209. R5, 6 credits maximum

PSY 494 Research in Social Personality Psychology 1-6 S

Research including psychological prejudice, social stigma, interpersonal perception, accuracy in impression formation, intergroup relations, motivational aspects of social cognition, gender, social/personality development across the lifespan, and forensic psychology. PREREQ: PSY 205 OR PSY 209. R5, 6 credits maximum

PSY 496 Neuroscience and Society 3 Y

Capstone course offered by the College of Arts & Sciences for the Integrated Neuroscience major. Learn how to translate your knowledge in neuroscience from laboratory bench to neurological patients' bedside and help problems in society. Permission of instructor.

PSY 499 Honors in Psychology 3 SI

PREREQ: PSY 205 OR 209.

Public Affairs And Citizenship

PAF 101 An Introduction to the Analysis of Public Policy 3 S

Develop research and problem solving skills to create government policies that address current social and economic problems facing the United States. Students study policy problems of their choice.

PAF 110 Public Service Practicum 1 S

Students investigate the societal issues affecting members of the Syracuse community by completing a 35 hour community service requirement, attending 4 class meetings to reflect on their experiences, and completing weekly journals and two paper assignments. R

PAF 121 Leadership Practicum 1 S

A six-week practical leadership development class that explores current leadership models. An overnight off-campus retreat is included.

PAF 200 Selected Topics 1-3 SI

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

PAF 275 National Security Organization 1 Y

Crosslisted with: ASC 205
Organization and administration of the U.S. national security forces, including strategic offensive, general purpose, and support-force components of the Department of Defense budget.

PAF 276 National Security Organization/Aerospace Forces 1 Y

Crosslisted with: ASC 206
Organization and administration of the U.S. aerospace forces, including strategic defensive, general purpose, and support-force components of the Department of Defense budget.

PAF 315 Methods of Public Policy Analysis and Presentation 3 S

Opportunity to develop competencies in the application of social science methods to public policy problems. PREREQ: PAF 101..

PAF 351 Global Social Problems 3 Y

Topics include war, inequality, population, scarcity, environment, and technology.

PAF 400 Selected Topics 1-3 S

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

PAF 409 Intermediate Analysis of Public Policy 3 S

Current public policy problems (e.g., energy, health care, transportation, the Equal Rights Amendment, the draft) using a variety of research techniques. PREREQ: PAF 101.

PAF 410 Practicum in Public Policy 3 S

Students develop skills and gain knowledge about organizations that influence and implement public policy. Students are placed in community agencies for about 100 hours of work or work in applied research projects conducted by faculty. PREREQ: PAF 101. R

PAF 416 Community Problem Solving 3 S

Historical problems of Syracuse. Volunteerism, community organization, and local socioeconomic conditions. Student teams work with youths from Syracuse community centers to solve local problems.

PAF 418 Comparative Public Policy in Practice 3

Crosslisted with: PSC 418
Students gain inside knowledge of London through assignment to an organization related to a student's major and interests. Weekly lectures and seminars explore the wider social and political context in which the organizations are operating. Offered in London only.

PAF 420 Interpersonal Conflict Resolution Skills 3 Y

Enhanced communication skills to interact more effectively and solve problems creatively. Emphasizing reflective listening, problem solving, assertion, and managing conflicts among needs and values. Presenting theories demonstrating skill, practice, and critique. Additional work required of graduate students. R

PAF 421 Mediation: Theory and Practice 3 SS

Mediation skills to facilitate the resolution of disputes and differences. Techniques of third party intervention with individuals and groups. Learning approach includes lectures, simulations, modeling and practice mediations. Additional work required of graduate students.

PAF 423 Leadership: Theory and Practice 3 SS

Leadership skills to exercise responsible leadership and effective group membership in various contexts. Focus on individual leadership style and growth. Development of skills for a collaborative model of leadership. Additional work required of graduate students.

PAF 424 Conflict Resolution in Groups 3 SS

Skills to enhance understanding of conflict and conflict resolution and manage conflict in intragroup and intergroup settings. Unstructured small group experience to learn how groups function and to present a context for practice.

PAF 431 Criminal Justice System 3 Y

Seminar exploring the structure and function of the criminal justice system, as well as current issues, through readings, case analysis, court observation, and guest speakers. PREREQ: PAF 101.

PAF 451 Environmental Policy 3 Y

Study of interaction among government, environmental lobbyists, industry, scientists, and news media in formation of environmental policies.

PAF 470 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

PAF 475 National Security Forces in Public Policy 3 Y

Crosslisted with: ASC 405

Broad range of American civil-military relations and environmental context in which defense policy is formulated.

PAF 476 National Security Forces in Contemporary American Society 3 Y

Crosslisted with: ASC 406

Impact of both technological and international developments upon strategic preparedness, military strategy, and the overall defense policy-making process.

PREREQ: PAF 475/ASC 405.

PAF 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

Queer Sexuality

QSX 111 Queer Histories, Communities, and Politics 3

Explores and analyzes lesbian, gay, bisexual, and transgender histories, communities, and politics from the ancient past to the contemporary, global present through an interdisciplinary reading of research, theory, memoir, biography, fiction, and documentary film.

QSX 112 Sexualities, Genders, Bodies 3

How lesbian, gay, bisexual, and transgender sexualities, genders, and embodiment are understood across communities and through time, an interdisciplinary analysis of literature, film, mass media, web sites, research, and theory.

QSX 306 Sexuality in Spain 3 Y

Crosslisted with: SOC 306

Offered only in Madrid. Explores important transformations in Spaniards' concepts of sexuality and gender through readings, film screenings and observing certain urban areas in Madrid.

QSX 384 Sexuality and the Law 3 E

Crosslisted with: PSC 384

Examines politically significant legal debates regarding gender and sexuality. Issues covered may include privacy rights, discrimination on the basis of sexual orientation and gender identity, family law and parental rights, and same-sex marriage.

QSX 389 LGBT Experience in American History 3

Crosslisted with: HST 389, WGS 389

The history of lesbian, gay, bisexual, transgender experience in American history. Effective spring 2007.

QSX 438 Trans Genders and Sexualities 3

Crosslisted with: WGS 438

How people actually live sex, gender, and sexuality in infinitely complex and interdependent ways that defy categorizing people as "male" or "female," "man" or "woman," "gay" or "straight" within the prevailing binary system of identities.

QSX 447 Sexualities and Genders in World Teen Culture 3

Crosslisted with: WGS 447

How teenagers in both U.S. and non-U.S. cultures are transforming their genders and sexual identities in response to the women's and lesbian/gay/bisexual/transgender liberation movements.

QSX 456 LGBT Studies in Sociology 3 Y

Crosslisted with: SOC 456, WGS 456

Recent sociological research in lesbian, gay, bisexual, and transgender studies addressing sexuality, identity, community, representation, politics, social change and their inter-relations.

Religion

REL 100 Selected Topics 1-3 SI

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

REL 101 Religions of the World 3 Y

The nature and significance of religion within human culture and existence as evidenced in various religions of the world both past and present.

REL 102 Religion Today in a Globalizing World 3 E

Consideration of the globalization of religions and the rise of worldwide trends: spirituality, fundamentalism, new religious movements, and major changes in established religions.

REL 103 Religion and Sports 3 Y

The religious/ceremonial origins of sports; importance of sports in human culture; issues of identity, gender, race, ethnicity as defined by sports. Special emphasis on lacrosse.

REL 104 Religion and Science 3 E

Historical and conceptual overview of the relations of religions and science in Christian and Islamic cultures. Engagement with current high profile debates, e.g. evolution and stem cell research.

REL 107 Religion, Literature, Film 3 IR

Crosslisted with: JSP 107

Literary and cinematic approaches to religious life, focusing on Jewish and Christian communities. Special attention to the Bible, Yiddish culture, post-Holocaust writing, and Israel; topics include land, tradition, humor, science, and violence.

REL 114 The Bible 3 Y

Crosslisted with: JSP 114

Jewish and Christian scriptures in their ancient Near Eastern and Hellenistic contexts, with particular attention to their literary forms, the history of their composition, and their role in the development of Western religions and cultures. Credit is not given for REL/JSP 114 and either REL/JSP 215 or REL 217.

REL 120 Introduction to the Study of Religion 3 IR

Introduces students to the academic study of religion as a complex field given shape through a diversity of academic disciplines and questions. Terms, concepts, and ideas will be discussed.

REL 121 Pilgrimage 3 O

A cross-cultural exploration of religious journeys, including pilgrim's travels through different landscapes as well as spiritual quests. Buddhist, Christian, Hindu, Muslim and indigenous traditions are regularly included.

REL 123 Religious Auto/Biography 3 IR

Crosslisted with: SAS 123

A cross-cultural exploration of religious autobiographies. Understanding multiple dimensions of religious life through narratives of the self, the sacred, and society.

REL 131 Great Jewish Writers 3 IR

Crosslisted with: JSP 131, LIT 131

Introduction to fiction by Jewish authors. Topics include modernization, rebellion against authority, alienation, childhood, superstition, and the holocaust. Some films included.

REL 135 Judaism 3 Y

Crosslisted with: JSP 135

Survey of Judaic ideas, values, and cultural expressions as found in biblical, talmudic, medieval, mystical, and modern texts.

REL 142 Native American Religion 3 Y

Crosslisted with: NAT 142

Religious beliefs and practices of native Americans; the diversity as well as similarity of religious expression.

REL 156 Christianity 3 Y

Distinctive aspects of Christianity, from its beginnings to the present. Scripture, institutional forms, worship, theology, ethics, and cultural influences.

REL 165 Islam 3 Y

Crosslisted with: SAS 165

Islam as a world religion: its origins, major beliefs, rituals, and historical development, emphasizing its geographical spread, diversity of interpretation, and cultural expressions.

REL 185 Hinduism 3 Y

Crosslisted with: SAS 185

Religious life of contemporary Hindus in India: gods, goddesses, and other divines; worship; sectarian movements; and rituals in the home, at temples, and at other holy sites.

REL 186 Buddhism 3 Y

Crosslisted with: SAS 186

Buddhism as a world religion: its origin in India, its spread to other parts of Asia, and consequent changes in doctrine and practice through the ages.

REL 191 Religion, Meaning and Knowledge 3 Y

Exploration of the age-old quest for meaning, knowledge and faith in the face of suffering and loss through art, philosophy, music and literature.

REL 200 Selected Topics 1-3 SI

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

REL 205 Ancient Greek Religion 3 Y

Historical and systematic studies of Greek myth and cult (pre-Homeric Chthonic religion through Olympian polytheism to the decline of the polis). Interaction of religion with drama, art, architecture, philosophy, and politics.

REL 206 Greco-Roman Religion 3 IR

Various aspects of religious thought and experience in the Greco-Roman world. Variety of ways in which Greco-Roman people expressed the human situation, constructed their world, and viewed salvation through myth, symbol, and ritual.

REL 215 The Hebrew Bible 3 IR

Crosslisted with: JSP 215

The Hebrew Bible (often called Old Testament) in English translation, with particular attention to its literary form, its cultural context in the ancient Near East, the history of its development, and its role in Western religions and cultures. Credit is not given for REL/JSP 114 and either REL/JSP 215 or REL 217.

REL 217 The New Testament 3 IR

Historical, literary, theological, and cultural dimensions of selected documents comprising the New Testament. Credit is not given for REL/JSP 114 and either REL/JSP 215 or REL 217.

REL 227 Gods: A Cross-Cultural Gallery 3 O

Study of Gods in a cross-cultural context accenting forms of Gods perceived and experienced in embodied, visible, concrete form rather than as "transcendent" or "spirit."

REL 231 Judaic Literature 3 Y

Crosslisted with: JSP 231, LIT 231

Survey of major works in the Judaic tradition, including Hebrew and Yiddish prose in translation. Themes include nature, culture, exile, humor, satire, and talking takhlis.

REL 241 Religious Diversity in America 3 Y

Emergence of United States as unique, multi-faith society, with focus on Christianity, Judaism, Islam, Buddhism, Hinduism, and other faiths.

REL 242 Religious Issues in American Life 3

How contemporary religious ideas, individuals, and organizations intersect with major political and cultural issues in the United States.

REL 244 Indigenous Religions 3 E

Crosslisted with: ANT 273, NAT 244

The connections between material life and religious life in cultures throughout the world. The diverse ways that various cultures inhabit their landscapes.

REL 246 Religion and Popular Culture 3 IR

Popular expressions of religion in and through cemeteries, holidays, music, film, media and sports.

REL 252 Religious Ethics and Social Issues 3 IR

Traditional and contemporary thought in the West. Issues in medical, business, and political ethics.

REL 255 Depth Psychology and Religious Ethics 3 Y

Theories of human nature and their implications for religion and ethics. Includes narcissism, religious experience, moral conscience, mutuality, and the commandment to love thy neighbor as thyself.

REL 281 African Religions: An Introduction 3 O

Crosslisted with: AAS 241

Historical and comparative study of religious practice in Africa. Diversity of traditional beliefs, developments in Christianity and Islam, and political significance of religious identity and practice. African influence on western religious practices.

REL 283 India's Religious Worlds 3 O

Crosslisted with: SAS 283

Inter-secting religious worlds of Hindus, Muslims, Sikhs, Jains, and Christians in modern India; focus on cosmology and morality in interaction with ritual practices, religious narratives, social life, media, and politics.

REL 290 Independent Study 1-6 SI

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

REL 291 Comparative Themes and Issues 3 IR

Special introductory thematic studies of religion, or of the study of religion. Themes and issues addressed may vary, but will generally feature the nature of religion itself, or the discipline of religious studies.

REL 294 Mythologies 3 IR

Mythologies of the world, ancient and modern, Eastern and Western, Northern and Southern. Issues of nature and function, historical development and diffusion of myth.

REL 295 Religion And Art 3 IR

Relationship between art, religion, and religious thought. May draw on classical religious sources, art history, literature, theology, or philosophy. Emphasis placed on Western religious/artistic traditions (Judaism, Christianity).

REL 300 Selected Topics 1-3 S

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

REL 301 Ancient Near Eastern Religions and Cultures 3 IR

The social contexts of ancient religious ideas and practices. Texts, art, and other artifacts from ancient Mesopotamia, Egypt, Syria, Palestine, and Israel.

REL 307 The Temple and the Dead Sea Scrolls 3 IR

Crosslisted with: JSP 307

History and literature of Second Temple Judaism including the canonization of scripture, origins of the synagogue, apocalyptic literature, the Dead Sea Scrolls, and other developments leading to early Christianity and rabbinic Judaism.

REL 308 The Origins of Christianity 3 S

Offered only in Madrid. Social, cultural, intellectual, and historical conditions which surrounded the birth of this new world religion in its Mediterranean cradle.

REL 309 Early Christianities 3 IR

The emergence of Christianity as a distinct religion within the Roman empire; the diversity of early Christian beliefs and practices.

REL 311 The Bible as Literature 3 IR

Crosslisted with: JSP 311

A study of one literary genre (such as prose narrative, didactic poetry, or hymnody) through the books of the Hebrew Bible in comparison to other ancient literatures.

REL 320 Religion and Culture 3 S

Religion as an expression of culture and also as a force that contributes to the formation of culture. Approaches and topics vary. R2, 9 credits maximum

REL 321 Christians, Jews and Muslims 3 S

Crosslisted with: HUM 321

Offered only in Madrid. Key historic encounters between the three versions of monotheism, with reference to the richness of past cultural and religious legacy rooted in the Mediterranean region.

REL 324 Religions and Storytelling 3 IR

Religious teachings in narrative form. Traditions include Hindu, Muslim, Jewish, Christian, African, and Native American religions. Topics include saints, miracles, gender, nature, identity, resistance, empowerment.

REL 326 Religion and Film 3 IR

Readings in religion and film theory to examine how film-makers employ, construct, and presume particular understandings of the religious. Film viewing outside regular classroom time.

REL 331 European and American Judaic Literature 3 Y

Crosslisted with: JSP 331
Readings of 20th-century fiction and drama, focusing on works by Schnitzler, Kafka, Wiesel, P. Levi, Yeziarska, H. Roth, I.B. Singer, Malamud, P. Roth, and Ozick.

REL 333 Yiddish Literature in Translation 3 Y

Crosslisted with: JSP 333, LIT 333
Survey of Yiddish literature, with special attention to the classic Yiddish authors, Yiddish theater, modernism, and Yiddish women writers. Themes of minority culture, class struggle, hasidism, and the decline of the Shtetl.

REL 334 Modern Judaism 3 IR

Crosslisted with: JSP 334
The impact of modernity on Jewish life and thought. Issues and themes vary.

REL 335 Israeli Literature and Culture 3 Y

Crosslisted with: JSP 335, LIT 335
Literary and cultural approach to the modern history of Israel, with special attention to conflicts that have arisen during the Zionist project.

REL 337 Shoah: Responding to the Holocaust 3 IR

Crosslisted with: JSP 337
Historical, literary, and philosophical representations of, and responses to, the Nazi genocide. Philosophical, theological, and ethical challenges raised by the Holocaust.

REL 341 Women, Abolition, and Religion in 19th Century America 3 IR

Crosslisted with: HST 387, WGS 341
The role that religion may have played in women's understandings of themselves as abolitionists and social reformers. A selected group of women will be studied, with considerable attention given to Frances Harper.

REL 342 Religion and Politics in the Israeli-Palestinian Conflict 3 S

Crosslisted with: JSP 342, MES 342, PSC 342
Considers the extent to which religion matters in an enduring ethno-nationalist conflict. Approaches the Israeli-Palestinian conflict from an interdisciplinary perspective that explores the intersection of religion and politics.

REL 343 American Religions and the News Media 3 Y

Examines spiritual complexity of the U.S.; explores relationship between media and organized religion.

REL 345 African American Religious History 3 Y

Crosslisted with: AAS 345
Historical significance of religion for Americans of African descent. African and western forces shaping religious identity. Religious practices, beliefs, organizations, imagery, literature, theories, and activism. Historical perspectives on meanings of religion.

REL 347 Religion and the Conquest of America 3 IR

Crosslisted with: NAT 347
The development of America through the contact between indigenous and colonial people's divergent religious understandings of land.

REL 348 Religion and American Consumerism 3 IR

Crosslisted with: NAT 348
Interrogates the relationship of American religious and economic practices, as compared with Native American traditions, during the 19th and 20th centuries.

REL 351 Theorizing Religion, Culture, Theology 3 IR

Contemporary and theoretical understandings of the meanings of religious, cultural, and theological discourse.

REL 352 Sociology of Religion and Morals 3 IR

Sociological interpretations of religion and morality. Classical writings of Emile Durkheim and Max Weber and contemporary sociologists. The sacred, ritual, community, secularization, social change, and justice.

REL 353 Religion and Nature 3 IR

American nature writing is examined for its religious structure, terminology, and effects.

REL 355 Religion, Identity and Power 3 Y

Crosslisted with: PSC 362, SOC 362
Examines ascendancy of religious movements; prominence of religious ideas; secularization and religion as a political force; conceptual and historical issues in relation to religious ideas and movements, including various Islamic revivals and the Christian right. Offered in London only.

REL 358 Critical Issues in Religious Thought 3 O

Introduction to religious thought through a philosophical inquiry into theological problems in both Western and Eastern religions. Epistemological, metaphysical, and axiological issues.

REL 364 Islamic Literatures 3 O

Major forms of literary and oral expression in Muslim cultures: poetry, devotional songs, folklore, storytelling, aphorisms, sermons, and philosophical writings. Explores the nature of God, humanity, creation, beauty, virtue and vice, love, ethics, and community.

REL 367 Islamic Arts and Aesthetics 3 O

Crosslisted with: SAS 367
Unity and diversity in the visual arts, crafts, music, and architectures of Muslims from Africa to Asia. Historical formation and cultural expressions of Islamic faith, identity, community, and aesthetic principles.

REL 375 Religion and Ethics in Post-Freudian Depth Psychologies 3 IR

Psychoanalytic theories after Freud and their contributions to understanding religious phenomena and the moral life.

REL 384 Goddesses, Women and Power in Hinduism 3 O

Crosslisted with: SAS 384, WGS 384
Interrelationship of power as female and female power in Hindu cosmology, mythology, and society. Complexities of mythic, domestic, and economic gender hierarchies.

REL 385 Religion in Chinese Society 3 E

Surveys the diversity of religious practice in mainland China and Taiwan focusing on the lived experiences of ordinary adherents both within institutionalized religions and through localized folk beliefs and practices.

REL 386 Studies in Buddhism 3 IR

Selected topics in the thought and practice of Buddhism.

REL 387 Confucianism and Buddhism in Everyday Asian Life 3 S

Offered only in Hong Kong. Examines presuppositions, world views, value systems and theories of salvation of two of the most influential religious traditions, and explores how these religions contribute to formation of culture in East Asia.

REL 391 Advanced Religion Seminar 3 Y

Content may vary, attention always given to diversity of theories and methods in study of religion. Required of all religion majors and minors. Open to others by special permission. Junior or Senior status.

REL 392 Music and the Sacred 3 O

Crosslisted with: HOM 492
Intersection of music and the sacred in a variety of cultural traditions and historical periods.

REL 395 Religions and the Natural Environment 3 E

Interpretations of the natural environment in the mythologies, rituals, and practices of religious traditions, including religious responses to current ecological crises.

REL 396 Mysticism 3 IR

Diverse manifestations of mysticism; historical case studies from various religious traditions. Insights of theologians and depth psychologists.

REL 400 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

REL 409 A History of Witchcraft 3
Crosslisted with: ANT 409, HST 409, WGS 409
History of witchcraft from various perspectives: its intellectual roots, the causes and dynamics of the witch-hunt, and the beliefs and self-perceptions of those who were called "witches". Offered only in Florence.

REL 421 Classical Mythology 3
Crosslisted with: CLA 421, LIT 421
Myths and rituals of Greek mythology and religion. Ancient poets/playwrights and important mythological themes found in later Western religious/artistic traditions. Offered only in Florence.

REL 435 Modern Judaic Thought 3 O
Crosslisted with: JSP 435, PHI 435
The philosophical implications of Judaism's encounter with modernity. Close readings of selected modern Jewish thinkers. Issues and figures vary. R3, 9 credits maximum

REL 439 Senior Seminar in Judaic Studies 3 Y
Crosslisted with: JSP 439
Interdisciplinary study of special topics in the Judaic tradition. R2, 9 credits maximum

REL 440 Modern Religious Thought 3 Y
Examines conceptions of human being in modern religious thought in Europe and America. Themes may include God and the self; God, art, and delight; and religion and despair. Figures examined may include Kierkegaard, Douglass, Dostoevsky, Dinesen, and Baldwin. R1, 6 credits maximum

REL 449 Religious Dimensions of Whiteness 3 IR
Examines the creation and use of "whiteness" as a religious dimension in the formation of American identity.

REL 451 Visual Culture Past and Present: Gender, Religion and Politics 3 S
Crosslisted with: CRS 451, HST 451, WGS 451
Offered only in Florence. Contemporary visual culture; its representation of gender, religion, and politics and the origins of that representation in a pictorial language first codified in Italy and Europe between circa 1450 and 1650.

REL 465 Gender, Politics and Islamic Societies 3 E
Crosslisted with: SAS 465, WGS 465
Politics of gender, religious identities, and resistance in the Islamic world. Gender in sacred texts including Qur'an and Shariah. Contemporary realities of Muslim women living in different parts of the world.

REL 470 Experience Credit 1-6 SI
Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

REL 471 Religion and Society in Brazil 3-4
Crosslisted with: ANT 471
Role of religion in society; religions of Brazil, including Catholicism, liberation theology, afro-religions. Spring break field stay in Rio de Janeiro; methods of study; preparation of research proposal.

REL 487 Global Hinduism 3 E
Double Numbered with: REL 687
Exploring how mobile middle-class Hindus re-create and re-define religion in new urban and global environments as a context for rethinking the place of religion(s) within rapid world-wide urbanization, migration, globalization, and increasing cultural (dis)integration. Additional work required of graduate students.

REL 490 Independent Study 1-6 SI
In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

REL 498 Thesis Preparation 3 Y
Departmental distinction for majors who demonstrate exceptional achievement in the study of religion.

REL 499 Honors Thesis 3-6 SI

REL 500 Selected Topics 1-3 IR
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

REL 516 The Torah/Pentateuch 3 IR
Crosslisted with: JSP 516
Critical issues in the modern study of the Pentateuch, including its composition, literary form, and canonization; the clash of historical and literary methods in contemporary biblical criticism.

REL 543 Religious Cultures of the American South 3 IR
Crosslisted with: AAS 543
Rise of "born again" evangelical Protestantism and its impact on the American South. Religious folkways that created the "Solid South" and black Christianity as an agent of transformation.

REL 551 Ethics and the Health Professions 3 Y
Crosslisted with: PHI 593
Ethical theories in professional, organizational, and political-economic fields in health care. Specific issues: assisted suicide, professional codes, ethics of "cost-cutting" and justice with respect to care.

REL 552 Bioethics 3 Y
Crosslisted with: PHI 594
Use of ethical theory in thinking about case problems in health care. Moral dilemmas: use of reproductive technologies, abortion, surrogate motherhood, research with humans, refusal and withdrawal of treatment, physician-assisted suicide.

REL 557 Modern Theology 3 E
Introduction to major figures and movements in twentieth-century theology. Upper division standing.

REL 595 Religion, Art, and Aesthetics 3 IR
Intersection between religion, art, and philosophy. Sources culled from Western religious thought and philosophy.

Russian

RUS 101 Russian I 4 Y
Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Russian. No prior experience or admission by placement testing.

RUS 102 Russian II 4 S
Continuing proficiency-based course which develops communicative abilities in speaking, listening, reading, in culturally authentic contexts. Activities are conducted in Russian. PREREQ: RUS 101.

RUS 201 Russian III 4 Y
Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Russian. PREREQ: RUS 102.

RUS 202 Russian IV 4 Y
Continuing proficiency-based course which further refines and expands linguistic skills in culturally authentic contexts. Incorporates reading, discussing, and analyzing texts as a basis for the expression and interpretation of meaning. Conducted in Russian. PREREQ: RUS 201.

RUS 301 Reading and Composition 3 Y
Reading, comprehension, oral and written composition, structure, and usage at the advanced intermediate level.

RUS 302 Reading and Composition 3 Y
Reading, comprehension, oral and written composition, structure, and usage at the advanced intermediate level.

RUS 320 Contemporary Russian Media 3 IR
Using contemporary newspapers, journals, web sites, news broadcasts, and video segments, this course will teach the development of fundamental reading/translation and aural/oral skills. PREREQ: RUS 202. R

RUS 331 Russian Culture Through Fiction and Film 3 IR
Crosslisted with: LIT 331
Documentary films and readings of short fiction. Elements of Russian culture and provides an understanding of Russian national identity as it has developed from Kievan Russian to the present day. PREREQ: RUS 202.

RUS 332 Russian Fairy Tales and Folklore 3 IR
Crosslisted with: LIT 332
The history and development of fairy tales in Russia. Begins with oral tales, influenced by early folklore and pagan rituals, and progresses through literary fairy tales and film versions. PREREQ: RUS 201.

RUS 351 Introduction to Russian Literature 3 IR
Masterpieces of Russian literature. Conducted in Russian.

RUS 352 Introduction to Russian Literature 3 IR
Masterpieces of Russian literature. Conducted in Russian.

RUS 361 Russian Literary Film Adaptations 3 IR
Crosslisted with: LIT 361
Study of film adaptations of Russian literary classics. PREREQ: RUS 202,.

RUS 405 Advanced Structure and Usage 3 Y
Practice in idiomatic usage, analysis of syntax, phonology, morphology. Required of Russian majors. PREREQ: RUS 301, 302.

RUS 490 Independent Study 1-6 S
In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

Science Teaching

SCI 104 Science-Questions and Questions: Physical Phenomena I 3 Y
Science for non-science majors seeking to explain curious events through laboratory experiences and study of motion, gravity, machines, energy, and properties of matter.

SCI 105 Science-Questions and Questions: Physical Phenomena II 3 Y
Science for non-science majors seeking to explain curious events through laboratory experience and study of heat, sound, electricity and magnetism, light, chemistry, and astronomy.

SCI 544 Teaching of College Science 3 Y
Crosslisted with: BIO 544
Current approaches. Analysis of teaching methods, such as lectures, discussions, evaluation, use of institutional technology, individualized instruction. Supervised teaching experiences to aid self-improvement as a college science teacher.

Science, Technology, And Society

STS 101 Introduction to Science, Technology, and Society 3 Y
Crosslisted with: BPS 101
Assessing technological innovations and their impact on society. Economic, political, and ethical considerations in development of public policy. Examples will include biotechnology and energy technology.

STS 203 Introduction to Technology 3 Y
Crosslisted with: ECS 203
Basic engineering principles behind some of today's rapidly changing technologies. The capabilities, limitations, and application of these technologies to audio and TV systems, CD players, communications' satellites, radar, computers, and the electric power system. For non-specialists.

STS 410 Science and Technology in the Modern World 3
Crosslisted with: HST 410
Interaction of science with technology from 1700 to the present. Technological artifacts and their scientific background. Development of new technology from scientific research and from old-fashioned dreaming and tinkering.

Social Science

SOS 200 Selected Topics 1-3 Y
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

SOS 400 Selected Topics 1-3 Y
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

SOS 407 Political Integration and Disintegration in Western Europe 3 IR
Crosslisted with: PSC 407
Origins of the modern territorial states of western Europe. Growth of supranational institutions, such as the European Economic Community, and their impact on European economic and political development. Offered only in Florence.

SOS 408 Comparative Social Movements 3 IR
Crosslisted with: PSC 408
Origin and policy impact of contemporary and historical European movements for social and political change. Labor movements, Eurocommunism, feminism, national socialism, fascism, and peace movements. Offered only in Florence.

SOS 575 Philosophy of Social Science 3 O
Crosslisted with: PHI 575
Philosophical and methodological issues in social and behavioral science. Role of laws in explanation of human action, methodological individualism and holism, functional explanation, value-neutrality, behaviorism, and computer simulation.

Sociology

SOC 101 Introduction to Sociology 3 S
Principal concepts, methods, and findings in sociology. Societal structures, processes, institutions, and social roles from both macro- and microanalytic human behavior perspectives.

SOC 102 Social Problems 3 S
Application of sociological theory and methods to identification, description, and analysis of contemporary social problems. Critique and analysis of alternative strategies for social change.

SOC 200 Selected Topics 1-3 S
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

SOC 230 Intergroup Dialogue 3
Crosslisted with: WGS 230
Guided intergroup communication skills. Cycle of socialization; social identities, and social structures that create and maintain inequality; power of dynamic of racism, sexism, and other systems of oppression. Students explore conflict and enact collaboration to deepen understanding.

SOC 248 Ethnic Inequalities and Intergroup Relations 3 S
Crosslisted with: WGS 248
Identification of individuals and groups by self and others as members of ethnic categories. Consequences of ethnic identifications for individual, group, and societal interaction. Emphasizing ethnic inequalities, group interactions, social movements and change, racism, prejudice, and discrimination.

SOC 254 Comparative Study of American Ethnic Communities 3 SI
Crosslisted with: AAS 254
Variety of ethnic communities in American society. Comparative analysis of similarities and uniqueness. Issues of group conflict, diversity, and unity.

SOC 281 Sociology of Families 3 S
Crosslisted with: WGS 281
Families and their connections to other social and economic institutions. Diversity of family forms and experiences. Formation and dissolution of relationships. Trends and changes.

SOC 300 Selected Topics 1-3 IR
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

SOC 305 Sociology of Sex and Gender 3 S
Crosslisted with: WGS 305
Social forces shaping women's and men's lives in contemporary societies. Changing gender expectations. Intersections of gender with race and ethnicity, class, and age. Social movements for women's and men's liberation.

SOC 306 Sexuality in Spain 3 Y
Crosslisted with: QSX 306
Offered only in Madrid. Explores important transformations in Spaniards' concepts of sexuality and gender through readings, film screenings and observing certain urban areas in Madrid.

SOC 309 Race, Gender and Sexuality in African Diaspora 3 S

Crosslisted with: AAS 309, WGS 309

To introduce students to the reality of how racism informs the common sense understanding of Black sexuality.

SOC 312 Pale and Beyond 3 IR

Field studies seminar based in Dublin and Belfast, explores whether a shared sense of being Irish exists despite the struggle and separation between the largely Catholic south and the largely

SOC 318 Introduction to Research 3 S

Techniques and problems of research in sociology. Research design, measurement, and data collection using surveys and other techniques. Computer analysis skills for social science data. Research project.

SOC 319 Qualitative Methods in Sociology 3 S

Crosslisted with: WGS 317

Field research methods including participant observation, unstructured interviewing, life histories, and case studies. Preparation and analysis of fieldnotes and interview data.

SOC 334 Criminal Justice 3 Y

Organization of criminal justice system in the United States and relations between its parts. Ideal versus actual roles of police, courts, and corrections in maintaining social control.

SOC 335 Political Sociology 3 IR

Double Numbered with: SOC 635

Relationships between society and politics. Impacts of individuals, groups, parties, and institutions on state power in global perspective. Additional work required of graduate students.

SOC 343 The Deviance Process 3 Y

Social processes that define behaviors or people as "deviant". Theories of anomic and nonconforming behavior. Individual, interpersonal, and structural consequences of labeling and exclusion.

SOC 345 Spanish Society and Pop Culture 3 S

Crosslisted with: ANT 355

Offered only in Madrid. Explores what is considered important, good, and fashionable in Spain today and how these values relate to historical developments as well as foreign influences.

SOC 353 Sociology of the African American Experience 3 E

Crosslisted with: AAS 353

Theory and research of African American sociologists in the historical, social, and political context of American sociology. Relation of their work to the African American experience and its reception and impact in the public policy arena.

SOC 354 Gender, Militarism, and War 3 IR

Crosslisted with: PSC 386, WGS 354

Militarism and war are examined by focusing on their relationship to gender. What does gender have to do with war? How do masculinity and femininity along with race work to create soldiers and enemies?

SOC 355 Sociology-of Health and Illness 3 Y

Crosslisted with: WGS 355

Conceptions of health and illness in society. The nature and organization of health professions and health delivery systems. Social aspects of health related behavior.

SOC 357 Sociology of American Business 3 IR

Relationship between business and society. Large corporation, small business and "franchise capitalism," merchandising and social change, social bases of investment and entrepreneurship, and business and politics.

SOC 362 Religion, Identity and Power 3

Crosslisted with: PSC 362, REL 355

Examines ascendancy of religious movements; prominence of religious ideas; secularization and religion as a political force; conceptual and historical issues in relation to religious ideas and movements, including various Islamic revivals and the Christian right. Offered in London only.

SOC 363 Urban Sociology 3 Y

Influence of the urban way of life. Ecological and population structure and changes in the modern composite city and metropolitan region. Urban planning in relation to economic patterns, family, education, government, recreation, and religion.

SOC 364 Aging and Society 3 Y

Crosslisted with: WGS 364; Double Numbered with: SOC 664

Current policy issues in an aging society. Health care, end-of-life, social security, productive aging, and generational equity. Special problems facing elderly women and minorities.

SOC 367 Sociology of Sport 3 S

Sport and race. Class and gender. College sports. Interrelationships among sport, media, and business/industry.

SOC 373 Sociology of Work 3 IR

Meaning and significance of work for individuals and societies. Changing nature of work. Structures of work and the labor force. Occupational recruitment, socialization, mobility, and discrimination.

SOC 377 Class, Status, and Power 3 IR

Double Numbered with: SOC 677

Structures, causes, and consequences of socio-economic inequalities in modern societies. Poverty and wealth, social mobility, and the persistence of inequality. Comparison and assessment of theories of social stratification.

SOC 397 Criminology 3 Y

Nature and significance of crime. Historical and modern explanations of crime. Varieties of crime. Issues in measuring crime and assessing its effects. Evaluation of crime control strategies.

SOC 400 Selected Topics 1-3 S

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

SOC 406 Sociological Theory 3 S

Introduction to classic and contemporary theory in sociology. Relevance of theory to research and analysis of social issues.

SOC 409 Sociology of the Globalization of Music 3 IR

Intercultural course introducing the study of traditional and modern non-western music in cultural context. Focus on non-western urban, hybridized forms of popular music. Course fee covers tickets and related costs. Offered in London only. [Effective spring 2009]

SOC 410 Seminar on Social Change 3 IR

Crosslisted with: AAS 410

Changes in African American communities or in the circumstances of African Americans within a particular institutional arena. Movements to promote change and obstacles to change. Substantive focus varies. R

SOC 412 Multicultural London 3 Y

Political, social and economic patterns of urban development; recent debates about multicultural cities; development of urbanism; political strategies; ethnic pluralism in British society; issues of identity, race, ethnicity and religion. Mandatory site visits. Offered in London only.

SOC 413 There Goes the Neighborhood: US Residential Segregation 3 SI

Crosslisted with: AAS 413

Chronicles patterns of racial residential segregation in the US by examining the methods that maintain racially distinct neighborhoods. Explores link between segregation and education, social mobility, health, and mortality.

SOC 415 Urban Sociology and Cities in Globalization 3 E

Sociological perspectives on city character and development in the light of expanding urbanization on an international scale: demographic dynamics and immigration, economic growth, politics and governance, and other areas including infrastructure and environment connections and culture.

SOC 416 Race, Crime and Punishment 3 SI

Crosslisted with: AAS 416

The multiple and complex relationships between race, the power to punish, and crime control policies and practice. Exploration of the theories of crime and punishment from classic to postmodern.

SOC 421 Population Issues 3 IR

Human mortality, fertility, and migration and how they affect social life. Life expectancy, low fertility, health disparities, family planning, and urbanization. United States and cross-national comparisons.

SOC 422 Work and Family in the 21st Century 3 S

Crosslisted with: CFS 422, WGS 422
Examines the social, demographic, and economic forces that are reshaping the boundaries between family and work.

SOC 423 Technology, Science and Society 3 O

How technology and science shape and re-shape our experiences of 'self' and 'body' and our visions of 'nature' explored through history, theory, science fiction, art, and our sociological imaginations.

SOC 424 Representations of Ability & Disability 3 E

Crosslisted with: DSP 424
Representations of disability in autobiographical accounts and professional narratives, and implications of these representations for educational practice and policy.

SOC 425 Feminist Organizations 3 Y

Crosslisted with: WGS 425; Double Numbered with: SOC 625
Women's movement history in the United States and internationally. Successes and problems of organizations built by feminist activism. Implications for a new generation of feminist (and other) activism. Additional work required of graduate students.

SOC 426 Social Issues and Deliberative Democracy 3 IR

Examination of social issues and public policy through the process of public deliberation. Class projects involving community forums. Social research, critique and analysis of public policy and social change.

SOC 427 New York City: Black Women Domestic Workers 3 Y

Crosslisted with: AAS 427, WGS 427; Double Numbered with: SOC 627
Historical understanding of Black women's engagement in paid domestic work in the United States, increasing need for domestic workers in the ever-changing economy and family, and the social construction of Black women as "ideal" domestic workers. Permission of instructor.

SOC 432 Gender and Disability 3 Y

Crosslisted with: DSP 432, WGS 432
This course will investigate the intersection of gender and disability and how it impacts such issues as representation/self-representation, art and poetry, illness, education, sexuality, reproduction and motherhood, and caring work.

SOC 433 Race, Class, and Gender 3 Y

Crosslisted with: WGS 433
Intersection of oppression and privilege via socially constructed categories of "race," "class," and "gender." Racism, sexism, institutional authority, and multiculturalism.

SOC 434 Globalization and Social Change 3 IR

How globalization is reshaping people's lives in the US and other societies. Causes, directions, consequences. Linking and standardization of patterns of consumption, culture, and production around the world.

SOC 435 Sexual Politics 3 IR

Crosslisted with: WGS 435
Social construction of sex and sexuality. Formation and organization of sexual communities, of sexuality as a form of social control. Social issues related to sexuality.

SOC 438 Disability and Popular Culture 3 Y

Crosslisted with: DSP 438
Explore representations of disability through the analysis of books, movies, television, cartoons, and journalism. It will examine how disability is portrayed by people with and without disabilities, and discuss influences on public perceptions of disability.

SOC 440 Sociology of Disability 3 IR

Crosslisted with: DSP 440
A theoretical understanding of disability through the lens of sociology and that of disability studies and demonstrates how cultural institutions shape conceptions of disability in society.

SOC 441 Federal Indian Policy and Native American Identity 3 IR

Crosslisted with: NAT 441
Shifts in Federal Indian policy and the social construction of American Indian identity. Identity struggles and identity politics in relation to blood and descent, community, land and sovereignty.

SOC 444 Contemporary Native American Movements 3 IR

Crosslisted with: NAT 444
Sociological analysis of Native American movements from 1960s to the present. National and regional movements in relation to jurisdictional issues and human rights. Red Power and pan-Indian movements are considered.

SOC 445 The Caribbean: Sex Workers, Transnational Capital, and Tourism 3 Y

Crosslisted with: AAS 445, WGS 445; Double Numbered with: SOC 645
A political economy approach to educating students about the human and capital costs of tourism to the Caribbean. The integral relationship between sex work and Caribbean tourism exposes the region's development that has resulted in its current configuration.

SOC 446 The Social Impact of the Internet 3 Y

Double Numbered with: SOC 646
Sociological implications of instantaneous communication, online publishing, identities and interactions, communities transcending geographic borders, and openly available information and opinion. Additional work required of graduate students. Offered only online.

SOC 447 Social Change and Conflict in Modern China 3 IR

Social and economic transformations in China in terms of social classes, cultural patterns, urban change, family patterns, ethnic tensions, and struggles over political rights. Questions of Taiwan and Tibet. How China's development affects the U.S.

SOC 448 The Dynamics of Prejudice and Discrimination 3 Y

Double Numbered with: SOC 648
Research and theory of prejudice and discrimination: inclusion/exclusion of individuals/social groups; classification of in/out groups; contributing roles of processes (difference, power, labeling, silencing). Recommended for upper-level students with some social science background and other coursework dealing with social inequities.

SOC 449 The Sociology of Evil 3 Y

Double Numbered with: SOC 649
Social conditions and processes allowing systematic dehumanization; perspectives of victim, perpetrator, audience, possibility of reconciliation. Extreme examples of evil; subtle ways of dehumanizing the other. Ethnic cleansing, international trafficking, terrorism. Additional work required of graduate students. Offered only online.

SOC 454 Family and Gender in Contemporary Italy 3

Crosslisted with: HST 454, WGS 454
Family structures and gender relations in Italy from the Unification to the present. Offered only in Florence.

SOC 456 LGBT Studies in Sociology 3 Y

Crosslisted with: QSX 456, WGS 456
Recent sociological research in lesbian, gay, bisexual, and transgender studies addressing sexuality, identity, community, representation, politics, social change and their inter-relations.

SOC 457 Gender, Politics, Society in Europe (1400-1800) 3 IR

Crosslisted with: HST 457, WGS 457
Relationship between the sexes in politics, philosophy, literature, and art. Emergence of a dissident "voice" relative to gender identity and social role, with implications for race and religion. Offered only in Florence.

SOC 466 Organizations and Society 3 IR

Nature and types of organizations and organizational processes. Dynamic relationships of organizations to societies and individual identities.

SOC 470 Experience Credit 1-6 SI

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

SOC 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

SOC 492 Work and Inequality 3 IR

Crosslisted with: WGS 492

Current and past issues in research and policy concerning inequalities associated with work. Social construction and structural arrangements of work in American society.

SOC 495 Senior Thesis 3 Y

Contemporary issues in sociology. Study of a particular problem by research methods. Collection and analysis of data. Written thesis and oral presentation required. 15 sociology credits needed (including SOC 101 and at least two of the following: SOC 318, SOC 319, SOC 406).

SOC 500 Selected Topics 1-3 SI

In-depth selected study of certain social problems. R

SOC 513 Statistics for Social Science 3 Y

Designed for first-year graduate students and sociology majors considering graduate study. Measures of central tendency and dispersion, hypothesis testing, and indices of association between variables. Application of statistics to social science data.

SOC 571 Topics in Sociolinguistics 3 SI

Crosslisted with: ANT 571, LIN 571

Functions of language in society. Geographical, socioeconomic, and male-female differentiation. Functions of various types of speech events. Requirements include a research project. R1, 6 credits maximum

Soling Program**SOL 240 Practicum in the Humanities-Soling 1-6 SI**

Humanities practicum in the Soling Program. R

SOL 250 Practicum in the Natural Sciences and Mathematics-Soling 1-6 SI

Natural sciences practicum in the Soling Program. R

SOL 260 Practicum in the Social Sciences-Soling 1-3 SI

Social sciences practicum in the Soling Program. R

SOL 304 Soling Project I: Introduction to Team Problem Solving 3 S

Teams of 3-5 students complete a project sponsored by the University community. Emphasis: working in a cooperative learning environment, using University resources, acquiring basic problem solving skills.

SOL 305 Soling Project II: Intermediate Team Problem Solving 3 S

Students supervise a team of 3-5 students completing projects sponsored by the greater SU community. Emphasis: planning, coordinating, and communicating.

SOL 340 Practicum in the Humanities, Soling 1-6 SI

Humanities practicum in the Soling Program. R

SOL 344 Creativity and the Art of Crossing Borders 3 Y

Explores the folk and fine art of puppetry through hands-on studios and workshops; an incubator for the students' creative self expression.

SOL 345 Puppets and Community 3 Y

Linking Open Hand Puppet Theater, the Syracuse City schools and SU students will collaborate with third graders at a city school to create giant puppets for use in a puppet pageant that will capture, celebrate, and unify the diverse groups of that community.

SOL 350 Practicum in the Natural Sciences and Mathematics, Soling 1-6 SI

Natural sciences practicum in the Soling Program. R

SOL 360 Practicum in the Social Sciences, Soling 1-6 S

Social sciences practicum in the Soling Program. R

SOL 404 Soling Project III: Advanced Team Problem Solving 3 S

Students interact with an off-campus sponsor in defining and completing a project that meets a specific need.

SOL 405 Soling Project IV: Technical Problem Solving 3 S

Student forms teams that act as consultants to other Soling teams to provide technical assistance.

SOL 406 Advanced Forensic Science 3 Y

Crosslisted with: FSC 406
Selected areas of current interest in forensic science presented. The application of scientific methods and techniques to crime detection and the law.

South Asian Studies**SAS 101 Hindi/Urdu I 4 Y**

Crosslisted with: HIN 101

Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Hindi/Urdu.

SAS 102 Hindi/Urdu II 4 Y

Crosslisted with: HIN 102

Continuing proficiency-based course which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts. Activities are conducted in Hindi/Urdu.

PREREQ: HIN 101.

SAS 123 Religious Auto/Biography 3 IR

Crosslisted with: REL 123

A cross-cultural exploration of religious autobiographies. Understanding multiple dimensions of religious life through narratives of the self, the sacred, and society.

SAS 165 Islam 3 Y

Crosslisted with: REL 165

Islam as a world religion: its origins, major beliefs, rituals, and historical development, emphasizing its geographical spread, diversity of interpretation, and cultural expressions.

SAS 185 Hinduism 3 Y

Crosslisted with: REL 185

Religious life of contemporary Hindus in India: gods, goddesses, and other divines; worship; sectarian movements; and rituals in the home, at temples, and at other holy sites.

SAS 186 Buddhism 3 Y

Crosslisted with: REL 186

Buddhism as a world religion: its origin in India, its spread to other parts of Asia, and consequent changes in doctrine and practice through the ages.

SAS 201 Hindi/Urdu III 4 Y

Crosslisted with: HIN 201

Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Hindi/Urdu.

PREREQ: HIN 102.

SAS 202 Hindi/Urdu IV 4 Y

Crosslisted with: HIN 202

Continuing proficiency-based course which further refines and expands linguistic skills in culturally authentic contexts. Incorporates reading, discussing, and analyzing texts as a basis for the expression and interpretation of meaning. Conducted in Hindi/Urdu.

PREREQ: HIN 201.

SAS 283 India's Religious Worlds 3 O

Crosslisted with: REL 283

Inter-secting religious worlds of Hindus, Muslims, Sikhs, Jains, and Christians in modern India; focus on cosmology and morality in interaction with ritual practices, religious narratives, social life, media, and politics.

SAS 324 Modern South Asian Cultures 3 O

Crosslisted with: ANT 324, WGS 324

Societies of India, Pakistan, Bangladesh, and Sri Lanka. Social organization, economic and political structures, religions and world view, survey of languages, the arts. Transition and modernization, rural and urban problems.

SAS 328 Ancient and Medieval India 3 IR

Crosslisted with: HST 328

Formation of traditional Indian kinship, religion, philosophy, and culture. Vedic society and the rise of Buddhism. Medieval Hindu kingdoms. Expansion and the legacy of Islam. Rise and disintegration of the Mughal empire.

SAS 329 Making of Modern India 3 Y

Crosslisted with: HST 329

British colonial expansion in India. Emergence of nationalism and related movements of religious, social, and cultural reform. Gandhi and non-violence. Struggle for independence and the politics of gender, class, caste, and religious community.

SAS 367 Islamic Arts and Aesthetics 3 O

Crosslisted with: REL 367

Unity and diversity in the visual arts, crafts, music, and architectures of Muslims from Africa to Asia. Historical formation and cultural expressions of Islamic faith, identity, community, and aesthetic principles.

SAS 375 British Empire 3 Y

Crosslisted with: HST 375

Seminar on expansion of the British Empire (emphasis on India and Africa) in the 18th and 19th centuries. Explores histories of conquest, administration and imperial policy, and the ideologies of imperialism and colonialism.

SAS 384 Goddesses, Women and Power in Hinduism 3 O

Crosslisted with: REL 384, WGS 384

Interrelationship of power as female and female power in Hindu cosmology, mythology, and society. Complexities of mythic, domestic, and economic gender hierarchies.

SAS 385 Music and Dance of India 3 O

Crosslisted with: HOM 384

Selected music and dance traditions of India in their cultural, historical, and performative contexts, representing classical, devotional, folk, tribal, and popular arts. Performance as a window into Indian culture, society, and modernization.

SAS 400 Selected Topics:South Asian Studies 1-3

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

SAS 465 Gender, Politics and Islamic Societies 3 E

Crosslisted with: REL 465, WGS 465

Politics of gender, religious identities, and resistance in the Islamic world. Gender in sacred texts including Qur'an and Shariah. Contemporary realities of Muslim women living in different parts of the world.

Spanish**SPA 101 Spanish I 4 Y**

Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Spanish. No prior experience or admission by placement testing.

SPA 102 Spanish II 4 S

Continuing proficiency-based course which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts. Activities are conducted in Spanish.
PREREQ: SPA 101.

SPA 200 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

SPA 201 Spanish III 4 S

Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Spanish.
PREREQ: SPA 102.

SPA 202 Spanish IV 4 S

Continuing proficiency-based course which focuses on reading, discussing, and analyzing authentic texts as a basis for the expression and interpretation of meaning. Conducted in Spanish.
PREREQ: SPA 201.

SPA 211 Intermediate Oral Practice 1 S

Additional practice for students in SPA 201 or 202. Attention confined to the spoken language. R

SPA 212 Intermediate Oral Practice 1 S

Additional practice for students in SPA 201 or 202. Attention confined to the spoken language. R

SPA 231 Intermediate Spanish I 3

Proficiency-based. Refines previously acquired linguistic skills. Conducted in Spanish. Completion of SPA 231 or 241 fulfills continuing skills requirement.
PREREQ: SPA 201, 202.

SPA 232 Intermediate Spanish II 3

Continuation of SPA 231. Required prerequisite for majors and minors.
PREREQ: SPA 231.

SPA 301 Approaches to Reading Texts 3 Y

Introduction to reading and analyzing texts written in Spanish.
PREREQ: SPA 202.

SPA 302 Advanced Language Usage II 3

Crosslisted with: LAS 315
Advanced grammar, composition, and conversation. Offered only in SUAbroad's Center in Madrid.

SPA 305 Mare Nostrum:Mediterranean Introduction to Spain 2 S

Thirteen-day seminar introduces students to Spanish culture with an emphasis on the heritage and industry of the Mediterranean and the consciousness that has shaped cuisine, literature, architecture, fashion, lifestyles and social mores in contemporary Spain. Offered only in Spain.

SPA 321 Introduction to Spanish Literature 3 E

Introductory-level study of representative literary texts of Spain from the 12th century to the present.
PREREQ: SPA 202.

SPA 322 Introduction to Latin American Literature 3 Y

Crosslisted with: LAS 302
Modern Latin American literature using new methods of study, basically Cultural Semiotics.
PREREQ: SPA 202.

SPA 325 Colonial Latin America 3 S

Crosslisted with: HST 322, LAS 322
Development of Amer-Indian civilization and the Spanish conquests. Evolution of the Spanish American economy and the unique American culture. Growth of the plantation economy of Brazil. The movements toward independence.
PREREQ: SPA 202.

SPA 326 Beyond the Screen: Latin American and Spanish Film 3

Crosslisted with: LAS 326

Film theories (historical, auteur, national, etc) and terminology, trends in film, women in film, problems with cultural representation.
PREREQ: SPA 202.

SPA 400 Selected Topics in Spanish 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

SPA 402 Hispanic Journalistic Practices 3 S

Crosslisted with: LAS 402

Examines journalism and media in Spanish as they are practiced in Spanish-speaking countries and the U.S. Conducted in Spanish. [Effective spring 2009]

SPA 433 Business Spanish 3

Crosslisted with: LAS 433

Language usage in relation to Spanish and Latin American business.
PREREQ: SPA 301.

SPA 435 Spanish Phonetics and Phonology 3

Double Numbered with: SPA 635

Introduction to formal linguistic analysis of the Spanish sound system. Survey of dialectal variation. Additional work required of graduate students.

SPA 436 The Structure of Spanish 3

Double Numbered with: SPA 636

Introduction to the formal linguistic analysis of the structure of Spanish sentences. Additional work required of graduate students.
PREREQ: SPA 202.

SPA 437 Introduction to Spanish Linguistics 3

Double Numbered with: SPA 637

Formal linguistic analysis of the Spanish language: phonetics, phonology, morphology, syntax, and language variation (sociolinguistics and dialectology). Taught entirely in Spanish. Additional work required of graduate students.

SPA 438 History of the Spanish Language 3

Double Numbered with: SPA 638

The evolution of modern Spanish. The causes of linguistic change, the development of the phonological and morphosyntactic systems, the semantic/lexical development of the language. Additional work required of graduate students.

SPA 441 Medieval and Golden Age Literature 3

Critical reading and discussion of significant literary works drawn from the Middle Ages and the 16th and 17th centuries.
PREREQ: SPA 301.

SPA 443 Cervantes 3 IR

Don Quixote, with selections from other representative works by Cervantes.
PREREQ: SPA 301.

SPA 451 Spanish Essay (18th-20th Century) 3

Literary works will include texts by Jovellanos, Feijóo, Larra, Pardo Bazán, Ganivet, Unamuno, Goytisolo, Martín Gaité, and Subirats, among others.
PREREQ: SPA 301.

SPA 453 Spanish Literature (20th Century) 3

Diachronic study of the Spanish short story and poetry. Emphasis on the different modes of neorealism, experimentalism, and the most recent trends.
PREREQ: SPA 301.

SPA 455 18th-19th Century (Con) Texts (1700-1800) 3

Analyze the invention of notions like literature, women, and nation in Spain. Representations of women in literary and cinematic texts.
PREREQ: SPA 301.

SPA 457 Narrative in Spain after 1940 3

Spanish women writers during and after Franco's dictatorship. Literary works will include texts by Laforet, Matute, Martín Gaité, Rodereda, Riera, Tusquets, Montero, and Grandes, among others.
PREREQ: SPA 301.

SPA 458 20th Century Spanish Theater 3

Diachronic study of the Spanish theater. Literary works will include texts by Valle-Inclán, García Lorca, Sastre, Buero Vallejo, Arrabal, Pedrero, and Onetti, among others.
PREREQ: SPA 301.

SPA 461 Nobel Prize Writers of the Spanish-Speaking World 3

Crosslisted with: LAS 461
Presents works by 10 Nobel Laureates in Spanish.
PREREQ: SPA 301.

SPA 463 Contemporary Latin American Theater 3

Crosslisted with: LAS 463
Introduction to major theater works and movements in 20th-century Latin America.
PREREQ: SPA 301.

SPA 464 Modern Spanish Art 3

Crosslisted with: HOA 464
Spanish art and architecture from the late eighteenth century to the present. Goya, succeeding styles and movements to the modernism of Picasso, Miro, and Dalí, and later styles. The architecture of Gaudí. Offered only in Madrid.

SPA 465 Literature and Popular Culture 3

Crosslisted with: LAS 465
Mass culture and post modernism. Interactions between mass media culture, art, and politics in Latin America.
PREREQ: SPA 301.

SPA 467 Film and Literature 3

Crosslisted with: LAS 467
A critical study of books made into film in Latin American literature.
PREREQ: SPA 301.

SPA 470 Teaching Experience 1-6 S

Supervised practical experience in teaching beginning and/or intermediate oral Spanish. R

SPA 471 Contemporary Latin American Literature 3

Crosslisted with: LAS 471
Latin American literature from the 1920s to the present. Emphasizes the development of the contemporary novel.
PREREQ: SPA 301.

SPA 475 Women, Myth and Nation in Latin American Literature 3

Crosslisted with: LAS 475, WGS 475
Myths about women and nation. Modern interpretations and reconstructions of these myths in contemporary literature by Latin American women writers. Literary texts with theories on myth. Representation and "real" constructions of feminine and national identities in different regions of Latin America.
PREREQ: SPA 301.

SPA 479 Perspectives on Mexico and Central America: Literature, Art, Film 3

Crosslisted with: LAS 479
Literary works, films and arts created in Central America. Topics include perspectives on indigenism, feminine and masculine identities, religion, politics, technology and its future implications on those countries.
PREREQ: SPA 301.

SPA 481 The Literature of Latinos in the United States 3

Crosslisted with: LAS 481
Short stories and poetry written in Spanish by Latinos. Themes such as identity, language, and culture. Political, social, and cultural readings.
PREREQ: SPA 301.

SPA 489 Hispanic Caribbean Narrative and Film 3

Crosslisted with: LAS 489
Texts in Spanish by Caribbean writers. Explores themes such as women, politics, death, identity. Readings are accompanied by films and followed by critical theory and analysis.
PREREQ: SPA 301.

SPA 493 Afro-Hispanic Topics in Caribbean Literature 3

Crosslisted with: LAS 493
Caribbean African-Hispanic literature (poetry and short stories) with different areas of social and political interest. Emphasis on different Caribbean religions.
PREREQ: SPA 301.

SPA 495 Marginal Cultures in Hispanic Caribbean Literature 3

Crosslisted with: LAS 495
Caribbean poetry and short stories about race, gender, and homoeroticism. Includes social, political, and cultural readings.

SPA 497 Text and Context in Cuban Revolutionary Literature 3

Crosslisted with: LAS 497
Literary works of the Cuban revolutionary period by Cuban and Cuban-American authors from different literary and political points of view.
PREREQ: SPA 301.

Turkish

TRK 101 Turkish I 4 Y

Proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Turkish.

TRK 102 Turkish II 4 Y

Continuing proficiency-based course which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts. Activities are conducted in Turkish.
PREREQ: TRK 101.

TRK 201 Turkish III 4 Y

Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Turkish.
PREREQ: TRK102.

TRK 202 Turkish IV 4 Y

Continuing proficiency-based course which further refines and expands linguistic skills in culturally authentic contexts. Incorporates reading, discussing, and analyzing texts as a basis for the expression and interpretation of meaning. Conducted in Turkish.
PREREQ: TRK 202.

Undergraduate Research Program

URP 250 Introduction to Undergraduate Research 1-6 S

Research or other academic work in conjunction with faculty-generated and sponsored research or professional work project as administered through the Undergraduate Research Program. R

URP 450 Advanced Undergraduate Research 1-6 S

Research or other academic work in conjunction with faculty-generated and sponsored research or professional work project as administered through the Undergraduate Research Program. R

Women's And Gender Studies

WGS 101 Introduction to Women's Studies 3 S

Gender as a critical inquiry relating to race, class, and sexuality.

WGS 192 Gender and Literary Texts 3 S

Crosslisted with: ETS 192
Construction and representation of "gender," especially as it affects the production and reception of literary and other cultural texts.

WGS 201 Transnational Feminist Studies 3 Y

Crosslisted with: ANT 201

Comparative study of women's lives, experiences, histories, and struggles across national and regional borders. Focuses on questions of theory, methodology, and politics of knowledge involved in cross-cultural feminist studies.

WGS 230 Intergroup Dialogue 3 S

Crosslisted with: SOC 230

Guided intergroup communication skills. Cycle of socialization; social identities, and social structures that create and maintain inequality; power of dynamic of racism, sexism, and other systems of oppression. Students explore conflict and enact collaboration to deepen understanding.

WGS 248 Ethnic Inequalities and Intergroup Relations 3 S

Crosslisted with: SOC 248

Identification of individuals and groups by self and others as members of ethnic categories. Consequences of ethnic identifications for individual, group, and societal interaction. Emphasizing ethnic inequalities, group interactions, social movements and change, racism, prejudice, and discrimination.

WGS 258 Poverty and Discrimination in America 3 Y

Crosslisted with: ECN 258

Nature and causes of inequality, poverty, and discrimination in rural and urban America. Income maintenance, employment, training, education, and other antipoverty programs; antidiscrimination and equal opportunity policies. Students may not receive credit for both ECN/WGS 258 and ECN/WGS 358.

WGS 281 Sociology of Families 3 S

Crosslisted with: SOC 281

Families and their connections to other social and economic institutions. Diversity of family forms and experiences. Formation and dissolution of relationships. Trends and changes.

WGS 297 Philosophy of Feminism 3 Y

Crosslisted with: PHI 297

Philosophical analysis of feminist theory. Feminist theories about human nature, gender, relations among gender, race and class, and causes of and remedy for women's subordinate status.

WGS 300 Selected Topics 1-3

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

WGS 301 Feminist Theory 3 Y

Advanced critical inquiry into frameworks of meaning that organize contemporary issues on the politics of gender emphasizing history of feminism, global perspectives, psychology of women and feminist philosophy.

WGS 303 Black Women Writers 3 Y

Crosslisted with: AAS 303

Literature and scholarship by Black women writers. Analytical reading, writing and discussion of various topics, stylistic questions, strategies generated in autobiography, fiction, drama, poetry, speeches and scholarship: 1960's to present, and earlier times. Bambara, Davis, Hurston, Jones, Lorde, Morrison, Williams.

WGS 305 Sociology of Sex and Gender 3 S

Crosslisted with: SOC 305

Social forces shaping women's and men's lives in contemporary societies. Changing gender expectations. Intersections of gender with race and ethnicity, class, and age. Social movements for women's and men's liberation.

WGS 307 African Women Writers 3 Y

Crosslisted with: AAS 307

Literature in English and translation by African women writing from a variety of cultural stances and geographic locations in Africa, Europe and North America. Writing styles and creative modes of expression used by African women writers to convey and envision the life of their work. Adichie, Aidoo, Dangaremba, El Sadaawi, Liking, Mbye d'Ernville, Tadjio.

WGS 309 Race, Gender and Sexuality in African Diaspora 3 S

Crosslisted with: AAS 309, SOC 309

To introduce students to the reality of how racism informs the common sense understanding of Black sexuality.

WGS 310 Feminist Inquiries 3 Y

Examine interdisciplinary approaches to feminist theories, methodologies, and epistemologies. Offers a comparative approach to feminist research. Students read, critique, and write from feminist perspectives and interrogate what it means to ask feminist questions. R

WGS 317 Qualitative Methods in Sociology 3 S

Crosslisted with: SOC 319

Field research methods including participant observation, unstructured interviewing, life histories, and case studies. Preparation and analysis of fieldnotes and interview data.

WGS 318 American Social Movements 3 Y

Crosslisted with: PSC 328

Social movements were always integral to American politics. Includes emergence, strategies, political context and influence of temperance, abolition of slavery, women's suffrage, labor, civil rights, anti-war, feminism, nuclear freeze, gay rights, and global justice movements.

WGS 319 Gender and Politics 3 Y

Crosslisted with: PSC 319

Relationships between gender and American political institutions, law, and policymaking processes. How social movements based on gender, prevailing gender ideologies, and gender relations have shaped American politics. Exploring how the American state has shaped the political meanings and relative positions of power associated with men and women.

WGS 324 Modern South Asian Cultures 3 O

Crosslisted with: ANT 324, SAS 324

Societies of India, Pakistan, Bangladesh, and Sri Lanka. Social organization, economic and political structures, religions and world view, survey of languages, the arts. Transition and modernization, rural and urban problems.

WGS 325 Economics and Gender 3 Y

Crosslisted with: ECN 325

Economic issues examined within a gender sensitive context. Includes the economics of family, the economics of marriage, and labor market discrimination and segregation.

WGS 326 Persons in Social Context 3 Y

Crosslisted with: SWK 326

Assessment of behavior of diverse individuals, groups, and social systems. Applying concepts from the biological, behavioral, and social sciences in identifying and understanding forms and causes of behavior.

WGS 327 Africa Through the Novel 3 IR

Crosslisted with: ANT 326

Cultural, political, and social life of Africa and Africans through African literature. Each semester deals with a motif (e.g., novels of Achebe).

WGS 328 Human Diversity in Social Contexts 3 Y

Crosslisted with: SWK 328

Diversity, including race, gender, sexual orientation and selected topics. Examines individual, group, and institutional identity formation. Theories of biopsychosocial development, reference group affiliation, social stratification, oppression, and institutional discrimination. Implications for social work practice.

WGS 329 Biopsychological Perspectives on Women's Health 3 E

Crosslisted with: PSY 329

Psychoanalytic and evolutionary theories of gender and adaptive fitness; psychoneuroimmunological perspectives on sexually influenced disease processes, aging, and biopsychological influences on women's health.

WGS 335 American Social and Cultural History 3 Y

Crosslisted with: HST 335

Nature of "American character" through the last century. Aspects of intellectual life, social mores, industry, and art that represent Americans' definitions of themselves and their nation.

WGS 341 Women, Abolition, and Religion in 19th Century America 3

Crosslisted with: HST 387, REL 341

The role that religion may have played in women's understandings of themselves as abolitionists and social reformers. A selected group of women will be studied, with considerable attention given to Frances Harper.

WGS 342 Women in America: 17th Century to the Civil War 3

Crosslisted with: HST 340

Focus on significant social and political transformation, activism, and individuals

WGS 349 Women in America: Civil War to Present 3

Crosslisted with: HST 349

Focus on significant social and political transformation, activism, and individuals.

WGS 354 Gender, Militarism, and War 3 IR

Crosslisted with: PSC 386, SOC 354

Militarism and war are examined by focusing on their relationship to gender. What does gender have to do with war? How do masculinity and femininity along with race work to create soldiers and enemies?

WGS 355 Sociology-of Health and Illness 3 Y

Crosslisted with: SOC 355

Conceptions of health and illness in society. The nature and organization of health professions and health delivery systems. Social aspects of health related behavior.

WGS 356 Political Conflict 3 IR

Crosslisted with: PSC 356

Theory and practice of political conflict and peacemaking. Issues may include class, race, gender and ethnicity, war, terrorism, and protest.

WGS 358 Economics of US Poverty and Discrimination 3 Y

Crosslisted with: ECN 358

Economic analysis of inequality, poverty, and discrimination, as applied to USA. Income maintenance, employment, training, education, and other antipoverty programs; antidiscrimination and equal opportunity policies. Students may not receive credit for both ECN/WGS 258 and ECN/WGS 358.

WGS 360 Reading Gender and Sexualities 3 Y

Crosslisted with: ETS 360

Textual, cultural, and/or historical constructions of gender and sexualities. R2, 9 credits maximum

WGS 362 Youth, Schooling and Popular Culture 3 Y

Crosslisted with: CFE 362, DSP 362; Double Numbered with: WGS 662

Positioned where school, media, and youth cultures intersect. How schools and media represent "good" and "bad" youth, and how youth negotiate schools and popular cultures. Includes theories of popular culture and adolescence.

WGS 363 Anthropology of Family Life 3 IR

Crosslisted with: ANT 363

Historical and cross-cultural study of forms of family and domestic organization, marriage, status and sex roles, ideals, and customs of family life.

WGS 364 Aging and Society 3 Y

Crosslisted with: SOC 364; Double Numbered with: WGS 664

Using a range of genres explore influence of health care, end-of-life, social security, productive aging, and generational equity. Special problems facing elderly women and minorities.

WGS 365 Negotiating Difference: Coming of Age Narratives 3 IR

Using a range of genres explore influence of place, family, and social expectations on self-definition; examines politics of everyday life, including trauma; and considers how authors craft stories in ways that resist marginalization.

WGS 367 Gender in a Globalizing World 3 IR

Crosslisted with: ANT 367, GEO 367

Economic and cultural processes of globalization as they affect different groups of men, women, and households; including gender and work, gender and the media, and redefinitions of masculinity and femininity across the globe.

WGS 371 Gender in Latin American History 3 IR

Crosslisted with: HST 371, LAS 371

History of women and gender relations from colonial period to the present. Influence of race, class, and ethnicity on gender. Relation of gender to labor, family, sexuality, and politics.

WGS 374 Law and Society 3 IR

Crosslisted with: PSC 374

Interaction of law with social values, customs, and organization. Relationship between a society's law and its broader environment.

WGS 379 Gender and Colonialism 3 IR

Crosslisted with: HST 379

Explores the intersection of gender and race in colonial ideologies, imperial practices and anti-colonial nationalist movements, in the 18th and 19th centuries.

WGS 384 Goddesses, Women and Power in Hinduism 3 O

Crosslisted with: REL 384, SAS 384

Interrelationship of power as female and female power in Hindu cosmology, mythology, and society. Complexities of mythic, domestic, and economic gender hierarchies.

WGS 389 LGBT Experience in American History 3 Y

Crosslisted with: HST 389, QSX 389

The history of lesbian, gay, bisexual, transgender experience in American history. Effective spring 2007.

WGS 395 Gender and Popular Culture 3 Y

How gender is created, mediated, maintained and policed through popular culture. The role of celebrity, music, musicians and musical performers and performances, film, television, the news, gossip, the internet, and advertising.

WGS 396 Women and the American Frontier 3 IR

Crosslisted with: HST 396

The North American frontier, from the 17th to the early 20th century, as it was experienced by women of various cultural and national origins.

WGS 400 Selected Topics 1-3 Y

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

WGS 403 African and Caribbean Women Writers 3 IR

Crosslisted with: AAS 403

Comparative approaches and trans-Atlantic analysis of literature by women writers from Africa and the Caribbean. Representations and constructions of social, political, and cultural life in colonial, neo-colonial, and contemporary contexts. Writers such as Ba, Brodber, Dangaremba, Marshall, Head, Dandicat, Nwapa.

WGS 404 Family and Gender in Renaissance Italy 3

Crosslisted with: ANT 404, HST 404

Historical and interdisciplinary exploration of life stages, rites of passage, marriage, family, social life, sodomy, prostitution, career options, and alternate life strategies as illustrated by case studies. Offered only in Florence.

WGS 408 The Practice of Eros: A History of Sexuality in Europe (1400-1800) 3

Crosslisted with: ANT 408, HST 408

Authorized and "alternative" sexuality in Europe 15th to 18th centuries (especially Italy, France, and England.) "Licit love" (courtship, marriage, conjugal relations) as opposed to "illicit unions" (adultery, rape, prostitution, bestiality, homosexuality, lesbianism). Offered only in Florence.

WGS 409 A History of Witchcraft 3

Crosslisted with: ANT 409, HST 409, REL 409

History of witchcraft from various perspectives: its intellectual roots, the causes and dynamics of the witch-hunt, and the beliefs and self-perceptions of those who were called "witches". Offered only in Florence.

WGS 410 Advanced Studies in Feminist Thought 3 Y

Topics in women's and gender studies. R

WGS 412 French Women Writers 3 E

Crosslisted with: FRE 412; Double Numbered with: WGS 612

Trends in French feminine and feminist writing from the early modern period to the present. Conducted in French. Additional work required of graduate students.

WGS 413 Identity and Difference 3

Crosslisted with: PHI 413, PSC 413
Interdisciplinary approach to examine concepts of identity and difference, challenges notions of subjectivity, nation and gender. Philosophical, political, and gender-related dimensions explored. Offered only in Florence.

WGS 414 Communication & Gender 3 E

Crosslisted with: CRS 414
Exploration of assumptions under-lying different approaches to gender and communication. Gender and power implications of understanding communication as socially constructing identity and societal structures.

WGS 422 Work and Family in the 21st Century 3 Y

Crosslisted with: CFS 422, SOC 422
Examines the social, demographic, and economic forces that are reshaping the boundaries between family and work.

WGS 425 Feminist Organizations 3 IR

Crosslisted with: SOC 425; Double Numbered with: WGS 625
Women's movement history in the United States and internationally. Successes and problems of organizations built by feminist activism. Implications for a new generation of feminist (and other) activism. Additional work required of graduate students.

WGS 427 New York City: Black Women Domestic Workers 3 Y

Crosslisted with: AAS 427, SOC 427; Double Numbered with: WGS 627
Historical understanding of Black women's engagement in paid domestic work in the United States, increasing need for domestic workers in the ever-changing economy and family, and the social construction of Black women as "ideal" domestic workers. Permission of instructor.

WGS 432 Gender and Disability 3 Y

Crosslisted with: DSP 432, SOC 432
This course will investigate the intersection of gender and disability and how it impacts such issues as representation/self-representation, art and poetry, illness, education, sexuality, reproduction and motherhood, and caring work.

WGS 433 Race, Class, and Gender 3 Y

Crosslisted with: SOC 433
Intersection of oppression and privilege via socially constructed categories of "race," "class," and "gender." Racism, sexism, institutional authority, and multiculturalism.

WGS 435 Sexual Politics 3 IR

Crosslisted with: SOC 435
Social construction of sex and sexuality. Formation and organization of sexual communities, of sexuality as a form of social control. Social issues related to sexuality.

WGS 436 Feminist Rhetoric(s) 3 IR

Crosslisted with: CRS 436, WRT 436; Double Numbered with: WGS 636
Feminist rhetoric from both a historical and global context, utilizing both primary and secondary readings in order to gain a sense of breadth and depth in the field of feminist rhetoric. Additional work required of graduate students.

WGS 438 Trans Genders and Sexualities 3 IR

Crosslisted with: QSX 438
How people actually live sex, gender, and sexuality in infinitely complex and interdependent ways that defy categorizing people as "male" or "female," "man" or "woman," "gay" or "straight" within the prevailing binary system of identities.

WGS 439 Women, Gender and Violence in a Transnational Context 3 IR

Explores the relationship between women, gender, and violence within a transnational feminist framework. Women's experiences of, participation in, and resistance to different forms of violence.

WGS 441 Topics in Feminist Philosophy 3 IR

Crosslisted with: PHI 441
Feminist approaches to traditional philosophical questions in various areas, including epistemology, ethics, metaphysics, and philosophy of science. Use of philosophical tools and methods on questions regarding the subordination of women.

WGS 444 Schooling & Diversity 3 S

Crosslisted with: CFE 444
Construction of diversity (race, ethnicity, gender, nationality, class, disability, sexual orientation) in schools. Emergence of inequalities based on difference in pedagogy and curriculum. Student resistance in relation to cultural diversity. Teaching for empowerment.

WGS 445 The Caribbean: Sex Workers, Transnational Capital, and Tourism 3 Y

Crosslisted with: AAS 445, SOC 445; Double Numbered with: WGS 645
A political economy approach to educating students about the human and capital costs of tourism to the Caribbean. The integral relationship between sex work and Caribbean tourism exposes the region's development that has resulted in its current configuration.

WGS 447 Sexualities and Genders in World Teen Culture 3 IR

Crosslisted with: QSX 447
How teenagers in both U.S. and non-U.S. cultures are transforming their genders and sexual identities in response to the women's and lesbian/gay/bisexual/transgender liberation movements.

WGS 449 Women in Art 3 IR

Crosslisted with: HOA 440
Representation of women in art from prehistoric to contemporary times and the works of women artists in historical contexts.

WGS 451 Visual Culture Past and Present: Gender, Religion and Politics 3

Crosslisted with: CRS 451, HST 451, REL 451
Offered only in Florence. Contemporary visual culture; its representation of gender, religion, and politics and the origins of that representation in a pictorial language first codified in Italy and Europe between circa 1450 and 1650.

WGS 452 Feminism and Postcolonial Studies 3 Y

Double Numbered with: WGS 652
Introduction to postcolonial studies and its engagement with feminism. Focus on cross-cultural feminist analysis of colonialism, neo-colonialism, decolonization, orientalism, and racism/racialization. Emphasis on questions of representation, agency, and subjectivity. Additional work required of graduate students.

WGS 454 Family and Gender in Contemporary Italy 3

Crosslisted with: HST 454, SOC 454
Family structures and gender relations in Italy from the Unification to the present. Offered only in Florence.

WGS 455 Culture and AIDS 3 IR

Crosslisted with: ANT 455; Double Numbered with: WGS 655
Relationship between AIDS and cultures in which it spreads. Cultural practices and sexuality and social effects of widespread AIDS, including healthcare in Asia, Africa, Latin America, and USA. Additional work required of graduate students.

WGS 456 LGBT Studies in Sociology 3 Y

Crosslisted with: QSX 456, SOC 456
Recent sociological research in lesbian, gay, bisexual, and transgender studies addressing sexuality, identity, community, representation, politics, social change and their inter-relationships.

WGS 457 Gender, Politics, Society in Europe (1400-1800) 3 IR

Crosslisted with: HST 457, SOC 457
Relationship between the sexes in politics, philosophy, literature, and art. Emergence of a dissident "voice" relative to gender identity and social role, with implications for race and religion. Offered only in Florence.

WGS 462 Culture and Reproductive Health and Medicine 3 IR

Crosslisted with: ANT 462, HTW 462
Cultural anthropological approaches to cross-cultural variations in reproductive practices (pregnancy, childbirth, infertility, etc.) Impact of globalization, biomedicalization, international development on reproduction and reproductive health. Medical anthropology and gender studies.

WGS 465 Gender, Politics and Islamic Societies 3 E

Crosslisted with: REL 465, SAS 465
Politics of gender, religious identities, and resistance in the Islamic world. Gender in sacred texts including Qur'an and Shariah. Contemporary realities of Muslim women living in different parts of the world.

WGS 472 Language, Culture, and Society 3 Y

Crosslisted with: ANT 472, LIN 472; Double Numbered with: WGS 672

Cross-cultural survey of the role of language in culture and society, including cognition and language usage along the dimensions of class, gender, race, ethnicity, and social status.

WGS 473 Women, Rap and Hip-Hop Feminism 3 IR

Crosslisted with: HOM 473; Double Numbered with: WGS 673

Links between feminism, rap music and hip-hop culture. We explore the work of actual women in hip-hop, images of women, and feminist critiques of the music and the culture. Additional work required of graduate students.

WGS 474 Culture and Folklore 3 IR

Crosslisted with: ANT 474; Double Numbered with: WGS 674

Ways in which folklore (oral and material traditions, including personal narratives), reflects key cultural ideas such as gender, ethnicity, and history. Analytical methods for examining folk traditions. Additional work required of graduate students.

WGS 475 Women, Myth and Nation in Latin American Literature 3

Crosslisted with: LAS 475, SPA 475

Myths about women and nation. Modern interpretations and reconstructions of these myths in contemporary literature by Latin American women writers. Literary texts with theories on myth. Representation and "real" constructions of feminine and national identities in different regions of Latin America.

WGS 478 Language & Gender 3 IR

Crosslisted with: ANT 478; Double Numbered with: WGS 678

The role of language in the construction of gender/sex, using works of linguistic anthropologists, sociolinguists, and feminists. Children's learning of gendered language; the intersection of gender, class, and language; gender and political economy.

WGS 479 Power, Conflict, Violence, and the Family 3 E

Crosslisted with: CFS 479

Introduction to power and conflict in intimate and familial relations. Neglect, abuse, molestation, rape, battering, and violence.

WGS 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

WGS 492 Work and Inequality 3 IR

Crosslisted with: SOC 492

Current and past issues in research and policy concerning inequalities associated with work. Social construction and structural arrangements of work in American society.

WGS 494 Music and Gender 3 E

Crosslisted with: HOM 494

The impact of gender ideology and behavior on the performing arts and the role of performance in maintaining and subverting gender identities and relations.

WGS 498 Senior Project in Women's & Gender Studies 3 S

For senior women's and gender studies majors graduating with distinction. Individualized and small group mentoring and directed research culminating in an independent project. Permission of department.

WGS 500 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

WGS 512 African American Women's History 3 O

Crosslisted with: AAS 512

The intellectual, political, and social history of African American women from pre-colonial Africa to the re-emergence of black feminism in the late 20th-century United States.

WGS 513 Toni Morrison: Black Book Seminar 3 E

Crosslisted with: AAS 513

A multi-dimensional study of Morrison's bookwork: fiction, non-fiction, and scholarship. Involves conceptual frameworks and ideas that link this project with broader understandings and interpretations of Blacks in the world. A wide range of questions (i.e., aesthetics, feminisms, knowing-politics, language, race) derives from Morrison's literary witnessing of Black community life.

WGS 525 Economics and Gender 3 Y

Crosslisted with: ECN 525

Offered only in Strasbourg. European economy, with central focus on economic principles underlying decisions to create and extend scope of European Community and on economic policies EU has followed since creation.

WGS 553 Women and Social Change 3 E

Crosslisted with: ANT 553

Function of changes in women's roles in sociocultural urbanization, revolution, and modernization. Women in Third World countries compared to women in industrialized countries.

WGS 555 Food, Culture and Environment 3 Y

Crosslisted with: NSD 555

Understand the environment in which nutrition education and communication occur. The broader environment includes cultural diversity, the food system from farm to table, as well as functionality of food components.

WGS 576 Gender, Place, and Space 3 Y

Crosslisted with: GEO 576

Contemporary debates in feminist geography on the gendered construction of space and the spatial construction of gender.

World Language Prog: Korean

KOR 101 Korean I 4 Y

Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Korean.

KOR 102 Korean II 4 Y

Continuing proficiency-based course which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts. Activities are conducted in Korean.

PREREQ: KOR 101.

KOR 201 Korean III 4 Y

Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Korean.

PREREQ: KOR 102.

KOR 202 Korean IV 4 Y

Continuing proficiency-based course which further refines and expands previously acquired linguistic skills in culturally authentic contexts. Incorporates reading, discussing, and analyzing texts as a basis for the expression and interpretation of meaning. Activities conducted in Korean.

PREREQ: KOR 201.

Writing Program

WRT 104 Introduction to College-Level Writing 3 IR

College-level reading and writing practices: learning to compose for college audiences, to read challenging texts actively, to make interpretations and claims, and to collaborate with others. Does not substitute for WRT 105.

WRT 105 Studio 1: Practices of Academic Writing 3 S

Study and practice of writing processes, including critical reading, collaboration, revision, editing, and the use of technologies. Focuses on the aims, strategies, and conventions of academic prose, especially analysis and argumentation.

WRT 109 Studio 1: Practices of Academic Writing (Honors) 3 Y

Intensive version of WRT 105 for students of demonstrated exceptional ability.

WRT 114 Writing Culture 3 Y

Nonacademic writing; creative nonfiction, memoir, the essay. Students write texts experimenting with style, genre, and subject; read contemporary nonfiction texts by varied authors; attend lectures/readings of visiting writers.

WRT 120 Writing Enrichment 1-3 S

Special instruction in writing, graded on pass/fail basis. Does not substitute for WRT 105 or 205. Permission of instructor. R

WRT 205 Studio 2: Critical Research and Writing 3 S

Study and practice of critical, research-based writing, including research methods, presentation genres, source evaluation, audience analysis, and library/online research. Students complete at least one sustained research project.

WRT 207 Writing in the Workplace 3 IR

Introduction to workplace writing genres. Emphasis placed on understanding audience needs during the planning and revision process, as well as editing for clarity and impact. Provides students with useful tools for enhancing all workplace communications. This course is available only online.

WRT 209 Studio 2: Critical Research and Writing (Honors) 3 Y

Intensive version of WRT 205 for students of demonstrated exceptional ability. PREREQ: WRT 105 OR 109.

WRT 220 Writing Enrichment 1-3 S

Special instruction in writing, graded on a pass/fail basis. Does not substitute for WRT 105 or 205. Permission of instructor. R

WRT 255 Advanced Argumentative Writing 3 Y

Intensive practice in the analysis and writing of advanced arguments for a variety of settings: public writing, professional writing, and organizational writing. PREREQ: WRT 105.

WRT 301 Advanced Writing Studio: Civic Writing 3 S

Practical skills necessary for effective civic or advocacy writing. Examines the nature of public(s) and applies theoretical understandings to practical communication scenarios. Junior standing. PREREQ: WRT 105 AND WRT 205.

WRT 302 Advanced Writing Studio: Digital Writing 3 Y

Writing in digital environments. May include document and web design, multimedia, digital video, web logs. Introduction to a range of issues, theories, and software applications relevant to such writing. Junior standing. PREREQ: WRT 105 AND 205.

WRT 303 Advanced Writing Studio: Research and Writing 3 S

Sustained research and writing project in a student's field of study or area of interest. Analysis of the rhetorics and methodologies of research. Junior standing. PREREQ: WRT 105 AND WRT 205.

WRT 307 Advanced Writing Studio: Professional Writing 3 S

Professional communication through the study of audience, purpose, and ethics. Rhetorical problem-solving principles applied to diverse professional writing tasks and situations. Junior standing. PREREQ: WRT 105 AND WRT 205.

WRT 308 Advanced Writing Studio: Style 3 Y

Study and experiment with contemporary writing styles, designs, and editing conventions. Practice writing in multiple genres for different audiences, purposes, and effects. Explore rhetorical, aesthetic, social, and political dimensions of style. Junior standing. PREREQ: WRT 105 AND 205.

WRT 320 Writing Enrichment 1-3 S

Special instruction in writing, graded on a pass/fail basis. Does not substitute for WRT 105 or 205. Permission of instructor. R

WRT 331 Peer Writing Consultant Practicum 3 Y

Introduction to theories and methods of writing consultation. Topics include: social dynamics, grammar, ESL, LD, argumentation, critical reading, writing process. Practices: observations, role playing, peer groups, one-on-one. Writing intensive. PREREQ: WRT 105, 205.

WRT 340 Advanced Editing Studio 3 Y

Students will produce INTERTEXT, an anthology of student writing in the Writing Program. This extensive editorial project will include: processing manuscripts, production of the anthology, marketing, and public relations tasks. Permission of instructor. R

WRT 407 Advanced Workshop in Professional, Technical or Disciplinary Writing 1-3 IR

Support for professional, technical, or disciplinary writing strategies and genres required for advanced or capstone projects, courses, portfolios, or work experience. Linked to a particular course or major requirement. Junior standing. PREREQ: WRT 105 AND 205. R

WRT 417 Advanced Technical Documentation 3 IR

Double Numbered with: WRT 617 Course builds on technical writing fundamentals by focusing on practical writing techniques and providing extensive practice in designing and writing technical product/process documents. Additional work required of graduate students.

WRT 419 Advanced Technical Writing Workshop 3 IR

Double Numbered with: WRT 619 Intensive experience in writing technical texts. Additional work required of graduate students. Undergraduates must have junior or senior standing.

WRT 422 Studies in Creative Nonfiction 3 Y

Particular topics in the analysis and practice of creative nonfiction. Attention to cultural contexts and authorship. Possible genres include memoir, travel writing, nature writing, experimental or hybrid writing, and the personal essay. PREREQ: WRT 105 AND 205. R1, 6 credits maximum

WRT 423 African American Rhetoric 3 IR

Examines the debates, strategies, styles, and forms of persuasive practices employed by African Americans with each other, and in dialogue within the United States. Junior standing. PREREQ: WRT 105 AND WRT 205.

WRT 424 Studies in Writing, Rhetoric, Identity 3 Y

Particular topics in the relations among identity, culture, and power in writing and rhetoric. How writing identities emerge in relation to cultural constructions of race, nationality, ethnicity, gender, sexuality, aging, disability. Junior standing. Prereq: WRT 105 and 205 or equivalent. R1 PREREQ: WRT 105 AND 205. R1, 6 credits maximum

WRT 426 Studies in Writing, Rhetoric, and Information Technology 3 Y

Particular topics in the study of technology-mediated communication, emphasizing digital discourses and culture. Includes practice and analysis of new genres and rhetorics with attention to their social and political meaning, contexts, and use. Junior standing. Prereq: WRT 105 and 205 or equivalent. R1 PREREQ: WRT 105 AND 205. R1, 6 credits maximum

WRT 427 Writing in Design and Development Environments 3 IR

Double Numbered with: WRT 627 Advanced technical writing course for professionals in design and development environments, focusing on writing that design and development teams perform regularly, with emphasis on writing embedded in system analysis, design, and implementation processes. Additional work required of graduate students.

WRT 428 Studies in Composition, Rhetoric and Literacy 3 Y

Particular topics in the theories and studies of writing, including style, community literacy, authorship, and rhetorical genres. Places writing in historical and cultural contexts. PREREQ: WRT 105 AND 205.

WRT 430 Advanced Experience in Writing Consultation 3 Y

Continuation of consultant experience of WRT 331. Work independently consulting in their majors or the Writing Program. PREREQ: WRT 105,205,331. R1, 6 credits maximum

WRT 436 Feminist Rhetoric(s) 3 Y

Crosslisted with: CRS 436, WGS 436 Feminist rhetoric from both a historical and global context, utilizing both primary and secondary readings in order to gain a sense of breadth and depth in the field of feminist rhetoric. Additional work required of graduate students.

WRT 437 Information Architecture and Technical Documents 3 IR

Double Numbered with: WRT 637

The relationship between technical writing and information architecture, integrating theories of design with technical composition techniques, and introducing formal structures used to represent, organize, retrieve, and apply information in technical documents. Additional work required of graduate students.

WRT 438 Advanced Creative Nonfiction 3 IR

Advanced theory and practice of writing interdisciplinary nonfiction in historical, political, cultural, and ethical contexts. Produces creative nonfiction as modes of intellectual inquiry and as scholarship within academic disciplines. Additional work required of graduate students.

WRT 440 Studies in the Politics of Language and Writing 3 Y

Language and writing as sites of political contestation in local, national, and global contexts. Explores policy initiatives, theoretical debates, and effects of politics and history on language and writing in communities. Junior standing.

PREREQ: WRT 105 AND 205. R1, 6 credits maximum

WRT 447 Technical Communication in Global Environment 3 IR

Double Numbered with: WRT 647

Complexities arising in writing technical documents for a wide range of audiences, including other races and cultures both domestically and internationally. Addresses ways that systems of knowledge, interfaces, design processes, and instructional mechanisms affect users. Additional work required of graduate students.

WRT 470 Experience Credit 1-6 IR

Participation in a discipline or subject related experience. Student must be evaluated by written or oral reports or an examination. Permission in advance with the consent of the department chairperson, instructor, and dean. Limited to those in good academic standing. R

WRT 495 Senior Research Seminar I 1 Y

Workshop provides students with collaborative environment to develop a proposal for a major project over an extended period. Typical activities: discussing project foci, drafting and workshopping project proposals, conducting research, discussing audience considerations, making periodic presentations. Department consent.

WRT 496 Senior Research Seminar II 2 Y

Workshop provides students with collaborative environment to develop a major project over an extended period. Typical activities: discussing project foci, drafting and workshopping project proposals, conducting research, discussing audience considerations, making periodic presentations.

PREREQ: WRT 495.

Faculty

Omanii Abdullah, Adjunct Instructor
M.A., University of Tennessee-Knoxville,
1974
Poetry

Meera Adya, Director of Research, Burton
Blatt Institute, College of Law
Ph.D., University of Nebraska-Lincoln, 2004;
J.D., University of Nebraska-Lincoln, 2002
Affiliated Faculty, Psychology; Law-
psychology, decision-making, employment
discrimination, genetic discrimination,
disability

Lois Agnew, Associate Professor of Writing
and Rhetoric
Ph.D., Texas Christian University, 1999
History of rhetoric and composition studies,
classical and British rhetorical theories, ethics
and public discourse, stylistics, rhetoric and
philosophy, rhetoric, composition

R. Craig Albertson, Assistant Professor,
Biology
Ph.D., University of New Hampshire, 2002
Developmental Biology, quantitative genetics,
comparative vertebrate morphology

Seth Aldrich, Adjunct Assistant Professor
Ph.D., Syracuse University, 1990

Beverly Allen, Professor
Ph.D., University of California, Berkeley,
1983
Italian, French, comparative literature,
cultural studies, feminist theory

Christine Allen, Adjunct Assistant Professor
Ph.D., Pennsylvania State University, 1987

David Althoff, Research Assistant Professor
Ph.D., Washington State University, 1998
Species interactions, molecular ecology, insect
community ecology

Ran Anbar, Adjunct Assistant Professor
M.D., University of Chicago, 1983

Douglas Anderson, Professor
Ph.D., Yale University, 1966
Algebraic topology

Cristian Armendariz-Picon, Assistant
Professor
Ph.D., Ludwig-Maximilians Universitat,
Munich (Germany), 2001
Cosmology, relativity, elementary particles, theory

Philip Arnold, Associate Professor
Ph.D., University of Chicago, 1992
History of Religions, Indigenous Traditions of
the Americas

Marina Artuso, Professor
Ph.D., Northwestern University, 1986
Elementary particles, experiment

A. Balachandran, Joel Dorman Steele
Professor of Physics
Ph.D., Madras University, 1962
Elementary particle theory

John Baldwin, Distinguished Professor,
Chemistry; William R. Kenan Jr. Professor of
Science
A.B., Dartmouth College, 1959; Ph.D.,
California Institute of Technology, 1963
Stereochemistry, kinetics, and mechanisms of
molecular rearrangements and fragmentations

Suzanne Baldwin, Professor
Ph.D., State University of New York at
Albany, 1988
Noble gas thermochronology, P-T-t evolution
of crustal terranes, plate boundary processes in
the Southwest Pacific, continental extensional
tectonics

Stefan Ballmer, Assistant Professor
Ph.D. MIT, 2006
Theoretical Astrophysics, gravitational Waves

Uday Banerjee, Professor
Ph.D., University of Maryland, 1985
Numerical solutions of differential equations

Crystal Bartolovich, Associate Professor
Ph.D., Emory University, 1993
Marxism, early modern studies, cultural studies

Kenneth Baynes, Professor, Philosophy and
Political Science
Ph.D., Boston University, 1987
Social and political philosophy, critical theory,
continental philosophy

Frederick Beiser, Professor
D.Phil., Oxford University (United Kingdom),
1980
Early modern philosophy, Kant, German
idealism

John Belote, Professor
Ph.D., University of North Carolina, Chapel
Hill, 1979
Developmental genetics, genetic and
molecular analysis of sex determination in
Drosophila

José Benardete, Professor
Ph.D., University of Virginia, 1954
Metaphysics, philosophy of mathematics,
ancient philosophy

Tej Bhatia, Professor
Ph.D., University of Illinois, 1978
Hindi, linguistics; Indic languages, literature,
and linguistics

Himika Bhattacharya, Assistant Professor
Ph.D., University of Illinois at Urbana
Champaign, 2008
Feminist Theory, Third World and
Transnational Feminisms, Feminist
Ethnography

Marion Bickford, Professor Emeritus
Ph.D., University of Illinois, 1960
Petrologist and isotope geochemist

Benita Blachman, Trustee Professor;
Coordinator, Learning Disabilities
Ph.D., University of Connecticut, 1981
Educational psychology, reading and other
learning disabilities, teacher preparation

Marlene Blumin, Associate Professor;
Director, Study Skills Program
Ph.D., Cornell University, 1988
Curriculum and instruction, college
reading/study skills

Steven Blusk, Associate Professor
Ph.D., University of Pittsburgh, 1985
Experimental high-energy physics

Philip Borer, Professor
Ph.D., University of California, Berkeley,
1972
Biophysical chemistry, nucleic acid chemistry,
nuclear magnetic resonance analysis of RNA,
DNA and peptides

Mark Bowick, Professor
Ph.D., California Institute of Technology,
1983
Condensed matter theory

Benjamin Bradley, Associate Professor
Ph.D., University of Massachusetts, Amherst,
1999
Ethical theory, environmental ethics

Mark Braiman, Professor
Ph.D., University of California, Berkeley
Photobiology of retinoids; membrane protein
expression, purification, and crystallization;
time-resolved vibrational spectroscopy applied
to photochemical systems

Zachary Braiterman, Associate Professor
Ph.D., Stanford University, 1995
Modern Jewish thought and culture specializing
in 20th-century thinkers, religion, art

Susan Branson, Associate Professor;
Professor, Director of American Studies
Ph.D., Northern Illinois University, 1992
Early American History

Collin Brooke, Associate Professor
Ph.D., University of Texas at Arlington, 1997
Rhetorics of technology, histories and theories
of rhetoric, critical theory

Amanda Brown, Assistant Professor
Ph.D., Boston University, 2007
Languages, literatures, and Linguistics, applied
linguistics

Duncan Brown, Assistant Professor
Ph.D., University of Wisconsin-Milwaukee,
2004
Theoretical astrophysics, relativity

Mark Brown, Associate Professor
Ph.D., Syracuse University, 1971
Modal logic, semantics, philosophical
problems of logic, philosophical foundations
of geometry and the philosophy of space and
time

Stuart Brown, Professor

Joan Bryant, Associate Professor
Ph.D., Yale University, 1996
American religious history

Gail Bulman, Associate Professor
Ph.D., Syracuse University, 1996
Spanish, 20th-century Latin American
literature

Michael Burkard, Associate Professor
M.F.A., University of Iowa, 1973
Creative writing, poetry

Dympna Callaghan, Dean's Professor in the
Humanities
Ph.D., Sussex University, 1986
Feminism, early modern culture, and theory

Horace Campbell, Professor, African
American Studies and Political Science
Ph.D., Sussex University, 1979
Comparative politics of Africa and the
Caribbean, armaments culture, political
economy

Nancy Cantor, Chancellor, Professor
Ph.D. Stanford University, 1978
Personality and social psychology; personality
and cognition.

John Caputo, Thomas J. Watson Professor
of Religion and Humanities
Ph.D., Bryn Mawr College, 1968
Deconstruction, hermeneutics,
phenomenology, continental philosophy of
religion

Kate Carey, Professor
Ph.D., Vanderbilt University, 1985
Substance abuse, stress and coping processes,
mentally ill chemical abusers

Michael Carey, Professor
Ph.D., Vanderbilt University, 1986
Sexual dysfunctions, health psychology, HIV
prevention

Robert Carey, Adjunct Associate Professor
Ph.D., University of Chicago, 1966

Jeffrey Carnes, Associate Professor
Ph.D., University of North Carolina, 1986
Greek poetry, mythology and Augustan Rome

Linda Carty, Associate Professor
Ph.D., University of Toronto (Canada), 1989
Race, class, and gender studies; comparative
sociology; international development post-
colonial discourse; Third World feminisms

Theo Cateforis, Assistant Professor
Ph.D., State University of New York at Stony
American music, 20th-century music, popular
music, jazz

Simon Catterall, Professor
Ph.D., Oxford University (United Kingdom),
1988
Elementary particles, theory, computational
physics

Ronald Cavanagh, Associate Professor
Th.D., Graduate Theological Union, Berkeley,
1968
1968 Philosophy of religion

Joseph Chaiken, Professor
Ph.D., University of Illinois, 1982
Physical chemistry, inter-/intramolecular
energy transfer, molecular beam/laser
spectroscopy, laser chemistry, fractals,
coalescence growth systems, biomedical
spectroscopy

Arindam Chakraborty, Assistant Professor
Ph.D., University of Minnesota, 2005
Theoretical and computational investigation
of energy conversion processes in quantum
dots and solar cells; electrochemical processes
on metal surfaces; development of quantum
mechanical methods for nuclear and electronic
dynamics; applications to materials and
biomolecules

Samuel Chan, Professor
Ph.D., University of Rochester, 1970
Mitochondrial membrane complexes,
bioenergetics in normal and tumor tissues

Pinyuen Chen, Professor
Ph.D., University of California, Santa
Barbara, 1982
Statistics

Xin Chen, Assistant Professor, Mathematics
Ph.D. University of Minnesota, 2010
Statistics

John Chisholm, Associate Professor
Ph.D., University of California, Irvine, 2000
Organic chemistry, medical, chemistry,
synthesis, catalysts.

Daniel Clark, Assistant Professor
Ph.D., SUNY Buffalo, 2008
Organic and organometallic chemistry;
catalytic reaction development; natural
product synthesis

Steven Cohan, Professor
Ph.D., University of California, Los Angeles,
1974
Film studies, narrative theory, gender studies

Dan Coman, Professor
Ph.D., University of Michigan, 1997
Several complex variables

Catherine Cornwell, Associate Professor
Ph.D., Massachusetts Institute of Technology,
1975
Neurobiology of learning and memory

Michael Cosgrove, Assistant Professor
Ph.D., Syracuse University, 1998
Structural biology, biochemistry, biophysics,
epigenetics

J. Cox, Professor
Ph.D., Cornell University, 1976
Probability

Amy Criss, Assistant Professor
Ph.D., Indiana University, 2004
Human memory; mathematical modeling

T. Jackie Cuevas, Assistant Professor
Ph.D., University of Texas at Austin, 2010
English, Ethnic and Third World Literatures,
Mexican American studies and women's and
gender studies

Pedro Cuperman, Associate Professor
Licenciado, University of Buenos Aires
(Argentina), 1966
Spanish, Latin American literature, critical
theory, semiotics

James Dabrowiak, Professor
Ph.D., Western Michigan University, 1970
Metallo-drugs, metals in medicine, drug
delivery, drug-nucleic acid interactions

Steven Diaz, Associate Professor
Ph.D., Brown University, 1982
Algebraic geometry

David Kwame Dixon, Assistant Professor
Ph.D., Clark-Atlanta University, 1996
International relations/comparative politics,
political economy and American government

Laurinda Dixon, Professor
Ph.D., Boston University, 1980
Northern Renaissance painting, relationships
between art and science

Helen Doerr, Laura J. and L. Douglas
Meredith Professor
Ph.D., Cornell University, 1994
Mathematical modeling, functions and
problem-solving using computing technology,
teacher professional development

Karen Doherty, Associate Professor
Ph.D., University of Wisconsin-Madison,
1994
Audiology, psychoacoustics, hearing aids,
speech perception

Sharon Dotger, Assistant Professor
Ph.D., North Carolina State University, 2006
Science teacher education, inclusive science
education

Robert Doyle, Associate Professor
Ph.D., University of Dublin, Trinity College,
2002, Anderson Foundation Fellow, Yale
University, 2004
Bioconjugate chemistry, chemical biology,
molecular biology

Marvin Druger, Laura J. and L. Douglas
Meredith Professor Emeritus
Ph.D., Columbia University, 1961
Science teacher education, general biology
instruction, evolutionary genetics

Kishi Animashaun Ducre, Assistant
Professor
Ph.D., University of Michigan, 2005
Environmental justice

Edward Dudewicz, Professor Emeritus
Ph.D., Cornell University, 1969
Statistics, decision theory, multivariate and
heteroscedastic analysis, statistical consulting
and computing, simulation, design of
experiments, fitting statistical distributions

Jerome Dusek, Professor
Ph.D., University of Illinois, 1969
Self-concept and identity development in
adolescence, sex roles, coping with stress

Collette Eccleston, Assistant Professor
Ph.D., University of California, Santa
Barbara, 2005
Stigma, prejudice, and discrimination;
motivation; coping; intergroup relations

Michael Echeruo, William Safire Professor in Modern Letters
Ph.D., Cornell University, 1965
Shakespeare, African literature, theory

Tanya Eckert, Associate Professor; Director, Graduate Training Program in School Psychology
Ph.D., Lehigh University, 1996
Assessment of academic and behavioral problems, school-based interventions, acceptability of assessment procedures

Susan Edmunds, Associate Professor
Ph.D., Yale University, 1991
Twentieth-century American literature, modernism, African American literature, theories of the body

Kevan Edwards, Assistant Professor
Ph.D., Rutgers University, 2006
Philosophy of mind, philosophy of language, cognitive science

Mary Louise Edwards, Professor
Ph.D., Stanford University, 1979
Phonetics, phonology, articulation, phonological development and disorders

Scott Erdman, Associate Professor
Ph.D., University of California, Davis, 1994
Regulation of cell differentiation

Kathryn Everly, Associate Professor
Ph.D., University of Texas, 2000
Contemporary Peninsular Spanish literature, Catalan literature and women writers

Craig Ewart, Professor
Ph.D., Stanford University, 1978
Health psychology, behavioral medicine, psychophysiology

Carol Fadda-Conrey, Assistant Professor, English

Gareth Fisher, Assistant Professor
Ph.D., University of Virginia, 2006
Buddhism, Chinese Buddhism, contemporary religion, globalization

Paul Fitzgerald, Professor, Earth Sciences
Ph.D., University of Melbourne (Australia), 1988
Low temperature thermochronology (fission track, U-Th/He), tectonics, landscape evolution of Antarctica

Arthur Flowers, Associate Professor
B.A., City University of New York, 1979
Creative writing, fiction

Thomas Fondy, Professor
Ph.D., Duquesne University, 1961
Cancer biology and cancer chemotherapy, drug resistance and host immune response in cancer, liposomal drug formulations in experimental cancer treatment, animal models in cancer research

Martin Forstner, Assistant Professor
Ph.D. University of Texas, Austin, 2003
Biophysics, experimental soft condensed matter, biophotonics

Kenneth Foster, Professor
Ph.D., California Institute of Technology, 1972
Biophysics of rhodopsin-based photoreceptors

Rodney Foster, Assistant Professor
Ph.D., Syracuse University, 1998
Eighteenth-century music

Jean-Francois Fournier, Assistant Professor
Languages, Literatures and Linguistics

Wayne Franits, Professor
Ph.D., Institute of Fine Arts, New York University, 1987
Baroque art, 17th-century Dutch painting

Douglas Frank, Associate Professor
Ph.D., Syracuse University, 1990
Plant and ecosystem ecology, emphasizing the effects of ungulates on grasslands

Teresa Freedman, Research Professor
Ph.D., University of Pennsylvania, 1972
Physical chemistry, computational chemistry, vibrational circular dichroism, Raman optical activity

Jason Fridley, Assistant Professor
Ph.D., University of North Carolina, Chapel Hill, 2002
Patterns of biodiversity, functional significance of biodiversity for ecological systems

Ken Frieden, B.G. Rudolph Professor
Ph.D., Yale University, 1984
Comparative literature, Hebrew and Yiddish fiction; European and American Judaic traditions; psychoanalysis and literary theory

Andre Gallois, Professor
B. Phil., University of Oxford, 1971
Epistemology, metaphysics, philosophy of language

Myrna Garcia, Assistant Professor
Ph.D., University of California, Berkeley, 1989
Caribbean literature

Anthony Garza, Associate Professor
Ph.D., Texas A and M University, 1995
Microbiology, gene expression in development

Stefano Giannini, Assistant Professor

Mark Ginsberg, Adjunct Associate Professor
Ph.D., Southern Illinois University, 1975

Ann Gold, Professor
Ph.D., University of Chicago, 1984
Teaching and research on religion in South Asia, popular Hinduism, women's expressive traditions, religions and environment, folklore, oral history

Michael Goode, Associate Professor
Ph.D., University of Chicago, 2001
British Romantic and early Victorian literature and culture, gender studies

Jerry Goodman, Professor
Ph.D., Harvard University, 1963
Physical chemistry, chemical vapor disposition, platinum anticancer drugs, light scattering from skin.

Michael Gordon, Adjunct Associate Professor
Ph.D., Ohio State University, 1977

Judith Gorovitz, Adjunct Assistant Professor
Ph.D., Case Western Reserve University, 1973

Samuel Gorovitz, Professor
Ph.D., Stanford University, 1963
Ethics, public policy, decision making

Richard Gramzow,
Ph.D. University of North Carolina, Chapel Hill, 1997
The self, groups, psychophysiology

Jack Graver, Professor
Ph.D., Indiana University, 1966
Combinatorics and graph theory

David Greenberg, Adjunct Associate Professor
Ph.D., Indiana University, 1966
Combinatorics and graph theory

Gerald Greenberg, Associate Professor, Associate Dean
Ph.D., Cornell University, 1985
Russian, Slavic linguistics

Roger Greenberg, Adjunct Professor
Ph.D., Syracuse University, 1968

Philip Griffin, Professor
Ph.D., University of Minnesota, 1982
Probability theory, mathematical finance

Erika Haber, Associate Professor
Ph.D., University of Michigan, 1993
Russian language and literatures

Rania Habib, Assistant Professor
Languages, Literatures and Linguistics

F. Hainsworth, Professor
Ph.D., University of Pennsylvania, 1968
Physiological ecology and comparative physiology, emphasizing energetic relationships in small mammals and birds

Roger Hallas, Associate Professor
Ph.D., New York University, 2002
Cinema studies

M. Hamner, Associate Professor
Ph.D., Duke University, 1997
Pragmatism, critical theory, women's studies, film, and popular culture

John Harkulich, Adjunct Assistant Professor
Ph.D., Florida State University, 1979

Robert Hatfield, Adjunct
Ph.D., Harvard University, 1966
Italian Renaissance art

Brooks Haxton, Professor
M.A., Syracuse University, 1981
Creative writing, poetry

Daniel Hayes, Assistant Professor

Mark Heller, Professor
Ph.D., Syracuse University, 1984
Metaphysics, epistemology

H. Hemphill, Associate Professor
Ph.D., Cornell University, 1967
Microbiology, microbial genetics

Margaret Himley, Professor
Ph.D., University of Illinois, Chicago, 1983
Composition and critical pedagogy, curriculum design, LGBT studies and queer rhetoric, phenomenological theories of children and childhood

Joseph Himmelsbach, Adjunct Associate Professor
Ph.D., Syracuse University, 1972

Gregory Hoke, Assistant Professor
Ph.D., Cornell University, 2006
Geomorphology, sedimentary geology, tectonics

Richard Holmes, Research Assistant Professor
Ph.D., University of Maryland, 1985
Elementary particles, experiment

Jeehee Hong, Assistant Professor
Ph.D. University of Chicago, 2008
Art of China; Arts of East Asia

Marc Howard, Associate Professor
Ph.D., University of Chicago, 1999
Human memory, cognitive neuroscience, mathematical and computational modeling

William Hoyer, Professor
Ph.D., West Virginia University, 1972
Life-span developmental psychology, learning and memory, cognitive aging, and aging

Wu-Teh Hsiang, Associate Professor
Ph.D., University of Pennsylvania, 1977
Differential geometry and differential equations

Jay Hubisz, Assistant Professor
Ph.D. Cornell University, 2006
Theoretical particle physics, cosmology

Bruce Hudson, Professor
Ph.D., Harvard University, 1972
Molecular spectroscopy and biophysical chemistry; inelastic neutron scattering studies of molecular crystals, especially those with unusual hydrogen bonding and comparison with theory; biophysical applications of fluorescence

Marsha Hunt, Part-time Instructor
J.D., Syracuse University, 1987

Sydney Hutchinson, Assistant Professor
Ph.D. New York University, 2008
Ethnomusicology

Richard Ingersoll, Ph.D.
Ph.D., University of California; Berkeley
16th century Italian architecture and survey of Italian urbanism.

Linda Ivany, Associate Professor
Ph.D., Harvard University, 1997
Evolutionary paleoecology, paleontology, paleoclimatology

Tadeusz Iwaniec, John Raymond French Distinguished Professor of Mathematics
Ph.D., University of Warsaw, 1975
Analysis

Mary Jackowski, Adjunct Assistant Professor
Ph.D., State University of New York Health Science Center, 1979

Mary Jeannotte, Adjunct Assistant Professor
Ph.D., State University of New York at Buffalo, 1993

Annette Jenner, Assistant Professor
Ph.D., Harvard University, 1998
Neuroscience, neurobiology of language

Jean Jonassaint, Associate Professor
Ph.D., Université de Montréal (Canada), 1990
xFrancophone studies, Haitian novel

Harold Jones, Professor
Ph.D., Princeton University, 1968
Spanish golden age literature

Randall Jorgenson, Associate Professor
Ph.D., University of Kansas, 1983
Health psychology, effects of personality coping, stress and heredity on cardiovascular reactivity

Bette Kahler, Instructor
M.Mus., Syracuse University, 1971
Organ performance and instruction, music history and theory

James Kallmerten, Professor
Ph.D., Brown University, 1979
Organic chemistry, organic synthesis, emphasizing methods and strategies for the preparation of biologically active natural products and electro-optical materials

Mary Karr, Jesse Truesdell Peck Professor of English Literature
M.F.A., Goddard College, 1980
Creative writing, poetry

Jeffrey Karson, Professor, Chair, Earth Sciences
Ph.D., State University of New York at Albany, 1977
Structural geology and tectonics

Tazim Kassam, Associate Professor
Ph.D., McGill University, 1993
History of religions, specializing in Islamic traditions and religions of South Asia

Christopher Kennedy, Associate Professor
M.F.A., Syracuse University, 1988
Creative writing, poetry

Krista Kennedy, Assistant Professor, Writing Program
Ph.D. University of Minnesota Twin Cities, 2009
Digital Rhetorics, Intellectual Property and Authorship, Textual Materiality, Technical and Professional Communication

Marilyn Kerr, Assistant Professor
Ph.D., Duke University, 1966
Developmental biology

Hyune-Ju Kim, Professor
Ph.D., Stanford University, 1988
Statistics

Claudia Klaver, Associate Professor
Ph.D., Johns Hopkins University, 1995
Nineteenth-century British literature and culture, feminist theory, women's studies, gender studies, and imperialism

Mark Kleiner, Professor
Ph.D., Kiev (USSR) State University, 1972
Representations of finite dimensional algebras

Jaklin Kornfilt, Professor
Ph.D., Harvard University, 1984
Syntactic theory, typology, German syntax, Turkish and Turkic linguistics

Timothy Korter, Associate Professor
Ph.D., University of Pittsburgh, 2001
Laser spectroscopy and computational chemistry

Leonid Kovalev, Assistant Professor
Ph.D. Washington University, 2005
geometric function theory

Thomas Krisher, Adjunct Assistant Professor
Psy.D., Hahnemann University, 1986

Robert Kuehnel, Adjunct Assistant Professor
Ph.D., University of Maine, 1988

Matthew LaHaye, Assistant Professor
Ph.D. University of Maryland, College Park, 2005
Experimental condensed matter physics

Gregg Lambert, Associate Professor
Ph.D., University of California at Irvine, 1995
Comparative literature and theory

Amy Lang, Professor
Ph.D., Columbia University, 1980
American literature and culture, women's studies

Larry Lantinga, Adjunct Associate Professor
Ph.D., University of Nebraska, 1973

Laura Lautz, Assistant Professor
Ph.D., Syracuse University, 2005
Hydrology, hydrogeology

Graham Leuschke, Associate Professor
Ph.D., University of Nebraska, 2000
Algebra, commutative algebra

Lawrence Lewandowski, Professor
Ph.D., University of Michigan, 1978
School psychology, exceptional children, neuropsychology

Katharine Lewis, Associate Professor, Biology
Ph.D. University College, London 1998

L. Gauce Lewis Jr., Professor
Ph.D., University of Chicago, 1978
Algebraic topology

John Lindberg Jr., Professor Emeritus
Ph.D., University of Minnesota, 1960
Banach algebras, Banach spaces

Carol Lipson, Professor Emeritus
Ph.D., University of California, Los Angeles,
1971
Rhetoric of ancient cultures before the Greeks,
technical communication, science writing

Edward Lipson, Professor
Ph.D., California Institute of Technology,
1971
Biophysics, experimental studies of sensory
processes

Soren Lowell, Assistant Professor
Ph.D., University of Arizona, 2005
Voice physiology, voice disorders, swallowing,
neurolaryngology

Yan-Yeung Luk, Associate Professor
Ph.D., University of Chicago, 2001
Bio-organic, chemical biology, nanometer-
scale and biocompatible materials, biosurfaces

Adam Lutoborski, Professor
Ph.D., Polish Academy of Sciences, 1981
Numerical analysis, applied mathematics

Scott Lyons, Associate Professor
Ph.D., Miami University, 2000
Native American literature and rhetoric

Erin Mackie, Associate Professor,
Department Chair, English
Ph.D., Princeton University, 1994
Restoration and 18th-Century British
literature

Diane Magini, Adjunct
Restorer, Uffizi Gallery, Florence History and
practice of art restoration

Christine Mahoney, Assistant Professor

Eleanor Maine, Associate Professor
Ph.D., Princeton University, 1984
Developmental genetics, cell-cell interactions

Stephen Maisto, Professor
Ph.D., University of Wisconsin, 1975
Etiology and treatment of alcohol and drug
use disorders, treatment and process, outcome
evaluation

M. Cristina Marchetti, William R. Kenan Jr.
Professor, Chair Department of Physics
Ph.D., University of Florida, 1982
Condensed-matter theory

Brian Martens, Professor
Ph.D., University of Nebraska, Lincoln, 1985
Applied behavior analysis and school
consultation

Charles Martin, Visiting Professor
Ph.D., State University of New York at
Buffalo, 1987
Poetry

Joanna Masingila, Laura J. and L. Douglas
Merdith Professor
Ph.D., Indiana University, 1992
Connecting mathematics practice in and out
of school, teacher learning

Kevin Masters, Professor
Ph.D., Brigham Young University, 1989
Relationship between religious spiritual
variables and health

Matilde Mateo, Assistant Professor
Ph.D., University of Santiago de Compostela
(Spain), 1994
Art of Middle Ages, classical art, romantic
aesthetics

Vivian May, Associate Professor
Ph.D., Emory University, 1997
Feminist epistemologies, African American
and Third World feminist theories,
decolonizing the imagination, critical
pedagogy, literature and social change

Mathew Maye, Assistant Professor
Ph.D., SUNY Binghamton, 2005
Inorganic chemistry, materials science,
nanoscience, biomimetics, self-assembly

Janis Mayes, Associate Professor
Ph.D., Brown University, 1975
Francophone, African, Caribbean, and African-
American literatures, literary translation

Edward McClennen, Professor, Political
Philosophy and Political Science
Ph.D., John Hopkins University, 1968
Moral and political philosophy, decision and
game theory

Terry McConnell, Professor
Ph.D., University of Illinois, 1981
Probability, analysis

Kris McDaniel, Associate Professor
Ph.D., University of Massachusetts-Amherst,
2004
Metaphysics, philosophy of religion, ethics

Thomas McKay, Professor
Ph.D., University of Massachusetts, 1974
Philosophy of logic, philosophy of language,
metaphysics

Dennis McKillop, Adjunct Assistant
Professor
Ph.D., University of Arizona, 1984

Alick McLean, Ph.D.
Ph.D., Princeton University School of
Architecture
Italian Romanesque, Gothic and Renaissance
architecture and urban design.

Stephen Meyer, Assistant Professor
Ph.D., SUNY Stony Brook, 1996
Eighteenth and 19th century music, history of
opera

Alan Middleton, Professor
Ph.D., Princeton, 1990
Condensed matter, theory; computational
physics

Claudia Miller, Associate Professor
Ph.D., University of Illinois at Urbana-
Champaign, 1997
Commutative algebra

Patricia Miller, W. Earl Ledden Professor
Ph.D., University of Chicago, 1979
Religion in late antiquity, Graeco-Roman
religions, early Christian asceticism and
hagiography

Donald Mills, Associate Professor
Ph.D., University of Iowa, 1970
Classics, Greek and Roman literature

Linda Milosky, Associate Professor
Ph.D., University of Wisconsin, Madison,
1986
Language development and disorders, discourse
processing, pragmatics, cognition and language

Chandra Talpade Mohanty, Professor
Ph.D., Education, University of Illinois,
Urbana-Champaign, 1987
Transnational feminist theory, anti-racist
pedagogy, post-colonial and third world
studies, cultural studies and radical education

Patricia Moody, Associate Professor
Ph.D., University of Texas, Austin, 1972
Linguistics, Medieval English literature,
literary theory, rhetoric and composition

Edward Mooney, Professor
Ph.D., University of California, Santa
Barbara, 1968
Kierkegaard, literature, philosophy and
religion, environmental vision

Rebecca Moore Howard, Professor of
Writing and Rhetoric
Ph.D., West Virginia University, 1984
Theory of authorship, print culture studies,
stylistics, composition history,
sociolinguistics, writing across the curriculum,
composition pedagogy, writing program
administration

Kevin Morrison, Assistant Professor
Ph.D., Rice University, 2009
Victorian literature and culture

Donald Morton, Professor
Ph.D., Johns Hopkins University, 1971
Marxism, critical and social theory, feminism,
queer theory, cultural studies and cybertheory

Raymond Mountain, Research Assistant
Professor
Ph.D., Notre Dame, 1992
Elementary particles, experiment

Liviu Movileanu, Associate Professor
Ph.D., University of Bucharest, 1997
Biophysics

Micere Githae Mugo, Laura J. and L.
Douglas Meredith Professor
Ph.D., University of New Brunswick (Canada),
1973
Orature, literature, creative writing, Pan-
Africanist studies, education

Henry Mullins, Professor
Ph.D., University of North Carolina, Chapel
Hill, 1978
Tropical carbonate platforms, oceanography,
and the Lacustrine Record of Quaternary
climate change in the Finger Lakes and Ireland

Laurence Nafie, Distinguished Professor
Ph.D., University of Oregon, 1973
Physical chemistry, vibrational optical
activity of molecules of biological and
pharmaceutical interest, infrared and near-
infrared vibrational circular dichroism (VCD),
Raman optical activity (ROA), Fourier
transform spectroscopy theory of resonance
Raman scattering, molecular electron
transition current density

Bence Nanay, Assistant Professor
Ph.D., University of California, Berkeley, 2006
Philosophy of mind, philosophy of biology, aesthetics

Jonathan Nelson, Ph.D.
Ph.D. in Art History, Institute of Fine Arts, New York University
Renaissance art history.

Leonard Newman, Associate Professor;
Director, Graduate Training Program in Social Psychology
Ph.D., New York University, 1990
Social cognition, social stigma, attitudes, psychology of genocide

Cathryn Newton, Professor
Ph.D., University of California, Santa Cruz, 1983
Paleobiology, paleoecology of mass extinctions, environmental stratigraphy

Richard O'Neill, Adjunct Associate Professor
Ph.D., State University of New York at Buffalo, 1983

Jani Onninen, Associate Professor
Ph.D., University of Jyväskylä (Finland), 2002
Nonlinear analysis and geometric function theory

Stephanie Ortigue, Assistant Professor
Ph.D., Geneva University of Medicine and Savoy University, 2004
Implicit perception, self-consciousness and its relationship to social cognition.

Tibor Palfai, Professor
Ph.D., University of Waterloo, 1969
Psychopharmacology, effects of drugs on learning and memory

Iswari Pandey, Assistant Professor
Ph.D., University of Louisville, 2004
Literacy studies, writing, (critical) ethnography, global/post-colonial rhetorics, multimodal compositions

Aesoon Park, Assistant Professor
Ph.D., University of Missouri-Columbia, 2006
Longitudinal person-environment interplay on alcohol misuse across emerging and young adulthood.

Stephen Parks, Associate Professor
Ph.D., University of Pittsburgh, 1993
Rhetoric, composition, community literacy/publishing, language politics, cultural studies

Joseph Pellegrino, Clinical Assistant Professor
Au.D., University of Florida, 2004
Adult audiologic assessments and hearing aids

Melissa Pepling, Assistant Professor
Ph.D., State University of New York at Stony Brook, 1995
Mouse germ line development, oogenesis

Scott Pitnick, Professor
Ph.D., Arizona State University, 1992
Microevolutionary processes and macroevolutionary relationships

Donald Planty, Professor

Britton Plourde, Assistant Professor
Ph.D., University of Illinois, Urbana-Champaign, 2000
Condensed matter, experiment

Eygeny Poletsky, Professor
Ph.D., University of Moscow (Russia), 1973
Geometric theory of functions of real and complex variables

Gwendolyn Pough, Associate Professor
Ph.D., Miami University, Ohio, 2000
African American rhetorical traditions, feminist rhetorics, popular culture, writing, rhetoric, composition, Black feminist theory, public sphere theory, popular culture

Minnie Bruce Pratt, Professor
Ph.D., University of North Carolina, 1979
Feminist theory and intersections of race, class, gender, and sexuality; intersection of lesbian, gay, bisexual, and transgender lives and issues; creative nonfiction and poetry; story telling and activism

Beth Prieve, Professor
Ph.D., University of Iowa, 1989
Auditory physiology, the diagnosis of hearing loss

Declan Quinn, Associate Professor
Ph.D., University of Wisconsin, 1985
Algebra, algebraic geometry, graph theory

Gary Radke, Professor
Ph.D., Institute of Fine Arts, New York University, 1980
Italian Medieval and Renaissance art

Ramesh Raina, Associate Professor
Ph.D., Jawaharlal Nehru University (India), 1991
Molecular signaling mechanisms between plants and their pathogens

Surabhi Raina, Instructor
Ph.D., Banaras Hindu University, 1992
Plant molecular genetics, biotechnology

Romita Ray, Assistant Professor
Ph.D., Yale University, 1999
18th- and 20th-century European and British Empire art/architecture, South Asian art

Kara Richardson, Assistant Professor
Ph.D., University of Toronto, 2008
Medieval philosophy, early modern philosophy

Brian Rieger, Adjunct Assistant Professor
Ph.D., Fordham University, 1996

Robin Riley, Assistant Professor
Ph.D., Syracuse University, 2000
Gender, war and militarism, transnational feminism, gender studies and queer theory, feminist international relations theory, feminist methodologies, popular culture, feminist theory, feminist pedagogy

Alicia Rios, Associate Professor
Ph.D., University of Maryland, 1992
Latin American literature and culture

Mark Ritchie, Professor
Ph.D., University of Michigan, 1987
Biodiversity, plant-herbivore interactions, conservation biology

William Ritchie, Associate Professor
Ph.D., University of Michigan, 1969
Linguistics, adult second-language learning, applied linguistics

David Rivers, Research Assistant Professor, Biology

John Robertson, Assistant Professor
Ph.D., University of Texas, 1975
Ancient philosophy, Aristotle's metaphysics, philosophy of mind, theory of action

Marcia Robinson, Assistant Professor
Ph.D., Emory University, 2001
Christian thought, African American religion and art

Carl Rosenzweig, Professor
Ph.D., Harvard University, 1972
Elementary particle theory, relativistic quantum field theory, gauge theory, cosmology

Zaline Roy-Campbell, Associate Professor
Ph.D., University of Wisconsin-Madison
Cultural and linguistic diversity, successful schools for African American students

Patricia Roylance, Assistant Professor
Ph.D., Stanford University, 2005
Early American literature and culture

Jeffrey Rozelle, Assistant Professor
Ph.D. Michigan State University, 2010
science teacher learning, socialization

Herbert Ruffin, Assistant Professor
Ph.D., Claremont Graduate University, 2007
African American history, U.S. West history, urban history.

Karin Ruhlandt, Distinguished Professor, Chair
Dr.rer.nat., Philipps University, Marburg (Germany), 1991
Inorganic and organometallic chemistry, crystallography, synthesis and structural characterization of inorganic compounds and their application in synthetic, solid state, and polymer chemistry

John Russell, Professor
Ph.D., University of Utah, 1971
Cellular physiology, ion transport, effects of viruses on cellular homeostatic processes

Scott Samson, Professor
Ph.D., University of Arizona, 1990
U-pb geochronology, chemical evolution of the crust-mantle system, evolution of neoproterozoic circum-Atlantic orogens

Jurepan Saranak, Research Assistant Professor
Ph.D., Mt. Sinai Medical School, 1981
Biophysics

- Peter Saulson**, Martin A. Pomerantz '37
Professor in Physics
Ph.D., Princeton University, 1981
Relativity, astrophysics experiment
- George Saunders**, Professor
M.F.A., Syracuse University, 1988
Creative writing, fiction
- Douglas Scaturro**, Adjunct Associate Professor
Ph.D., Claremont Graduate School, 1979
- Joseph Schechter**, Professor
Ph.D., University of Rochester, 1965
Elementary particle theory
- Eileen Schell**, Associate Professor, Chair and Director, Writing Program
Ph.D., University of Wisconsin-Milwaukee, 1993
Composition theory, 19th- and 20th-century rhetorical theory, women's rhetoric, feminist theory
- Eric Schiff**, Professor
Ph.D., Cornell University, 1979
Amorphous and crystalline semiconductors: defects, transport and recombination
- Richard Schnee**, Assistant Professor
Ph.D., University of California-Santa Cruz, 1996
Experimental observational cosmology
- Christopher Scholz**, Associate Professor
Ph.D., Duke University, 1989
Sequence stratigraphy, lacustrine and rift basin sedimentation and reflection seismology
- Jennifer Schwarz**, Assistant Professor
Ph.D., Harvard, 2002
Condensed matter theory
- Sascha Scott**, Assistant Professor
Ph.D., Rutgers University, 2008
19th- and 20th-century American art, art of the American West, representations of American Indians
- Kari Segraves**, Assistant Professor
Ph.D., Vanderbilt University, 2003
Plant-insect interactions, mutualism, coevolution, and phylogenetics
- Lixin Shen**, Associate Professor
Ph.D., Zhongshan University, 1996
Wavelets and image processing
- Linda Shires**, Professor
Ph.D., Princeton University, 1981
19th-century British literature and culture, narrative theory, feminism, gender studies
- Stephanie Shirilan**, Assistant Professor
Ph.D., Brandeis University, 2009
Seventeenth-century literature and culture
- Donald Siegel**, Professor
Ph.D., University of Minnesota, 1981
Regional hydrogeology, wetland hydrogeology, groundwater geochemistry
- Renate Simson**, Part-time Assistant Professor
Ph.D., Syracuse University, 1974
Nineteenth-century African American literature
- Tomasz Skwarnicki**, Professor
Ph.D., Institute of Nuclear Physics, Krakow (Poland), 1986
Elementary particles, experiment
- Bruce Smith**, Professor
M.A., Bucknell University, 1971
Creative writing, poetry
- Joshua Smyth**, Professor
Ph.D., State University of New York at Stony Brook, 1998
Health psychology/behavioral medicine, stress and coping, psychological interventions
- Mitchell Soderberg**, Assistant Professor
Ph.D. University of Michigan, 2006
Elementary particles, experiment
- Paul Souder**, Professor
Ph.D., Princeton University, 1971
Medium energy experiments
- James Spencer**, Professor, Director
v
Inorganic and organometallic-borane and carborane cluster complexes and photochemistry, forensic science, formation of solid state materials by chemical vapor decomposition and aerosol techniques, nanostructures and nonlinear optical materials
- Joshua Spencer**, Sutton Fellow
Ph.D., University of Rochester, 2008
Metaphysics, philosophy of language
- Dana Spiotta**, Assistant Professor
B.A., Evergreen State College, 1992
Creative writing, fiction
- Michael Sponsler**, Professor
Ph.D., California Institute of Technology, 1987
Organic and organometallic chemistry, liquid crystalline holographic materials
- Robert Sprafkin**, Adjunct Professor
Ph.D., Ohio State University, 1968
- W. Thomas Starmer**, Professor
Ph.D., University of Arizona, 1972
Population genetics, evolutionary biology, ecological genetics
- Michael Stocker**, Irwin and Marjorie Gutttag Professor
Ph.D., Harvard University, 1966
Ethics, moral psychology
- Sheldon Stone**, Professor
Ph.D., University of Rochester, 1972
Elementary particles, experiment
- Eileen Stempel**, Associate Professor/Associate Dean of the Graduate School
D.M., Indiana University, 1998
European and American art song, women and music, vocal performance
- Melody Sweet**, Part-time Instructor
Ph.D., University of Pennsylvania, 1985
Physiology and molecular biology
- Harvey Taub**, Adjunct Professor
Ph.D., University of Massachusetts, 1963
- Harvey Teres**, Associate Professor
Ph.D., University of Chicago, 1986
Twentieth-century American literature and culture, Marxist theory, American studies
- Greg Thomas**, Associate Professor
Ph.D., University of California-Berkeley, 1999
African/diasporic literature and culture, studies in sex and sexuality, world political criticisms
- Laurence Thomas**, Professor, Philosophy and Political Science
Ph.D., University of Pittsburgh, 1976
Ethical theory, social philosophy, the Holocaust
- Maria Ticio Quesada**, Assistant Professor
Languages, Literatures and Linguistics
- John Tillotson**, Associate Professor
Ph.D. University of Iowa, 1996
Science teacher education, teachers' beliefs and practices, rural education
- Karina Tippelskirch**, Assistant Professor
Ph.D., Philipps-Universität, Marburg University (Germany)
German language and literature
- Silvio Torres-Saillant**, Associate Professor
Ph.D., New York University, 1991
Caribbean, United States, Latino, and comparative literature
- Nancy Totah**, Associate Professor
Ph.D., Yale University; 1990
New methods for organic synthesis, asymmetric synthesis of natural products
- Joseph Tupper**, Professor
Ph.D., State University of New York at Albany, 1970
Growth-factor regulation of cell proliferation
- John Ucci**, Professor
Ph.D., University of California, Berkeley, 1964
Algebraic topology
- J. Albert Uy**, Associate Professor
Ph.D., University of Maryland-College Park, 2000
Sexual selection, animal communication, speciation
- Robert Van Gulick**, Professor
Ph.D., University of California, Berkeley, 1976
Philosophy of mind, philosophy of psychology
- Peter Vanable**, Associate Professor
Ph.D., University of Illinois at Chicago, 1997
Health psychology, HIV/AIDS prevention, substance use disorders
- Kathy Vander Werff**, Associate Professor
Ph.D., University of Iowa, 2002
Auditory evoked potentials, diagnostic audiology, and cochlear implants

Gregory Verchota, Professor
Ph.D., University of Minnesota, 1982
Partial differential equations, analysis

Gianfranco Vidali, Professor
Ph.D., Pennsylvania State University, 1982
Surface physics: adsorption/desorption
phenomena, two-dimensional matter, thin-
film growth; lowtemperature physics

Gershon Vincow, University Professor
Ph.D., Columbia University, 1959
Physical chemistry, chemical education

Andrew Vogel, Professor
Ph.D., University of Kentucky, 1989
Partial differential equations

Karina von Tipelskirch, Assistant Professor
Ph.D., Marburg University (Germany), 1997
German literature

Joanne Waghorne, Professor
Ph.D., University of Chicago, 1976
History of religions, South Asian religion,
globalization

Ernest Wallwork, Professor
Ph.D., Harvard University, 1971
Ethics, religion, the social sciences, and
bioethics

Jianchun Wang, Research Associate
Professor
Ph.D., Massachusetts Institute of
Technology, 1997
Elementary particles, experiment

B.R. Ware, Professor
Ph.D., University of Illinois, 1972
Biophysical chemistry

Betsy Waterman, Adjunct Assistant
Professor
Ph.D., Syracuse University, 1990

Mark Watkins, Professor
Ph.D., Yale University, 1964
Combinatorics, algebraic graph theory

Scott Watson, Assistant Professor, Physics
Ph.D. Brown University, 2005
Particle physics; cosmology theory

James Watts, Professor
Ph.D., Yale University, 1990
Hebrew Bible and ancient Near Eastern
religious traditions

Laura Webb, Research Professor
Ph.D., Stanford University, 1999
Structural geology, thermochronology,
tectonics

Stefan Wehrli, Assistant Professor,
Mathematics
Ph.D. University of Zurich, 2007
Topology

Roy Welch, Associate Professor
Ph.D., University of Wisconsin-Madison,
1997
Biochemistry, molecular signaling mechanisms

Louise Wetherbee Phelps, Professor
Ph.D., Case Western Reserve University, 1980
Composition and rhetoric (theory,
phenomenological description, criticism,
pedagogy), writing program administration

Constanze Weyhenmeyer, Assistant
Professor
Ph.D., University of Bern, Switzerland, 2000
Stable isotope geochemistry, paleoclimatology

Jason Wiles, Assistant Professor
Ph.D., McGill University 2008; M.S.T.,
Portland State University, 1996; M.S.,
Mississippi State University, 2007
Biology and science education, teaching and
learning of biological evolution

Bruce Wilkinson, Research Professor, Earth
Sciences
Ph.D. University of Texas, 1974
Sedimentary geology

Kheli Willetts, Assistant Professor
Ph.D., Syracuse University, 2002
African American art history and museum
studies

Larry Wolf, Professor
Ph.D., University of California, Berkeley,
1966
Ecology and social behavior, community and
population ecology

Bradley Wyble, Assistant Professor
Ph.D., Harvard University, 2003
Temporal factors of attention, memory, and
perceptual experience.

Amy Wyngaard, Associate Professor
Ph.D., University of Pennsylvania, 1998
French Literature

Yuesheng Xu, Professor
Ph.D., Old Dominion University, 1989
Applied mathematics

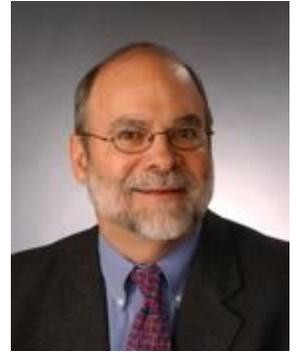
David Yaffe, Assistant Professor
Ph.D., City University of New York, 2003
Contemporary American studies, literature,
music

Dan Zacharia, Professor
Ph.D., Brandeis University, 1981
Algebra

Jon Zubieta, Distinguished Professor
Ph.D., Columbia University, 1971
Inorganic chemistry, coordination complexes,
polyoxometalates, microporous materials,
technetium-based radiopharmaceuticals

School Of Education

Douglas Biklen, Dean
230 Huntington Hall
soe.syr.edu



About The College/Dean's Message

Welcome to Syracuse University's School of Education, a national leader in inclusive urban education.

The school offers a variety of degree programs in teaching and nonteaching areas. Many of these programs lead to initial teaching certification in New York State. Emphasizing a solid foundation in the liberal arts as well as education, each degree program accommodates the personal and professional needs of its students. Many of our faculty members hold dual appointments in the School of Education and another college within the University. The School of Education also offers numerous laboratory and field-based teaching experiences in cooperation with local school districts, community institutions, and on- and off-campus early childhood centers.

There are no careers more critical to the human condition and sustainability than teaching, educational policy and the foundations of education, research in health and exercise science, counseling and instructional technology. Our undergraduate and graduate students as well as our faculty come from throughout the U.S. and from around the world.

Our leadership in inclusive urban education is built on a legacy of pioneering work in advancing educational opportunities for all learners. By linking research to practice our community of scholars and innovators collaborate to lead nationally recognized centers and institutes and serve in leadership roles on national boards, research projects and international conferences and projects.

Join us here at Syracuse University, take part in our centers abroad in London, Florence and Beijing or in our research and training projects in Asia, Australia, Latin America and Africa. Be a part of groundbreaking projects such as Say Yes to Education and Economic Development, Schools of Promise, Smart Kids, our Summer Reading Clinic, and the Center on Human Policy, Law and Disability Studies as well as many other dynamic programs. Become part of the School of Education's mission to address issues and seek solutions that can define the future of teaching and leadership, higher education, health and exercise science, reading and language arts, instructional design development and evaluation, and counseling in America and around the world.

The School of Education is Accredited by the National Council for Accreditation of Teacher Education (NCATE).

Undergraduate Admissions

External Admissions

(Students applying to Syracuse University from high school or another college or university.)

The School of Education appreciates your interest and hopes you will continue to learn more about the School by exploring the website (<http://www.soe.syr.edu>), visiting campus and meeting with a representative of the School.

To Apply

Candidates for undergraduate admission to Syracuse University apply to a specific major within one of our schools or colleges. To learn more about the programs available in the School of Education, contact Laurie Deyo, Undergraduate Admissions Recruiter at (315) 443-4269 or lldeyo@syr.edu.

For information about the application, the application process or enrollment dates and deadlines, contact the Office of Admissions at (315) 443-3611 or orange@syr.edu. To apply, please visit: <http://www.admissions.syr.edu/>

Application Timelines

- Early Decision Deadline: November 1
- Regular Decision Deadline: January 1
- Admissions Notification: Mid-March
- Candidates must reply by May 1

Visit Us

If you are interested in a full campus tour, a personal interview or an Office of Admission's information session, please contact the Office of Admissions at (315) 443-3611 or orange@syr.edu.

If you would like to meet with Laurie Deyo, the Undergraduate Admissions Recruiter for the School of Education, please contact her at (315) 443-4269 or lldeyo@syr.edu.

Internal Admissions

(Students who are already attending Syracuse University and want to transfer to the School of Education.)

INTRA-UNIVERSITY TRANSFER

Syracuse University students interested in an intra-university transfer (IUT) to the School of Education must meet the following cumulative grade point average (GPA) requirements for their desired program of study:

- 2.8 Art Education
- 2.8 Health and Exercise Science
- 2.8 Inclusive Early Childhood Special Education
- 2.8 Inclusive Elementary and Special Education
- 3.0 Music Education
- 2.8 Physical Education
- 2.8 Secondary Education Programs
- 2.8 Selected Studies in Education

Students must submit an intra-university transfer (IUT) application, available in the Office of Academic and Student Services in the School of Education, 270 Huntington Hall; in addition, a personal interview may be required from the Office of Academic and Student Services. Students who meet the cumulative GPA requirement are admitted on a space-available basis as determined by the education program. Those students whose cumulative GPA does not meet the requirements can be counseled as to the best options for them.

The applicability of prior earned credit (both at SU and transfer credit) will be evaluated. Intra-university transfer (IUT) applications are held until the end of the semester when GPAs and the student's interest in entering the program are assessed.

Students considering transfer into one of the single programs in education may find the following course suggestions helpful. These courses may be taken by non-education students with advisement while they make the decision to transfer or while the intra-university transfer (IUT) application is being processed.

Inclusive Early Childhood Special Education

CFS 201 Family Development

CFS 202 Development of Children and Youth

EDU 203 Study of Elementary and Special Education Teaching (first year)

Inclusive Elementary and Special Education Teacher Preparation Program

EDU 203 Study of Elementary and Special Education Teaching (first year)

SPE 311 Perspectives on Disabilities

Health and Exercise Science

PPE 295 Introduction to Exercise Science

HEA 332 Personal Health and Safety

Physical Education

PPE 177 Introduction to Physical Education

EDU 204 Principles of Learning In Inclusive Classrooms

Selected Studies in Education

EDU 200 Education for Cultural and Social Transformation

EDU 300 International Education for Cultural and Social Transformation

EDU 310 American School

Undergraduate Fin. Aid & Scholarships

The Office of Financial Aid and Scholarships is available to address your questions, offer options for payment, assist in filing student loan and grant applications, and suggest financial planning options. For additional information, visit their web site at <http://financialaid.syr.edu>, call (315) 443-1513 or send e-mail to finmail@syr.edu.

School Of Education Scholarships

Burton Blatt Scholarship

This scholarship is open to both undergraduate and graduate students at the School of Education. Recipients are chosen both for merit and financial need with preference given to a minority candidate.

For information regarding this scholarship contact:

Angela Flanagan, Scholarship Coordinator

Awards & Scholarship Committee

230 Huntington Hall

Syracuse, New York 13244-2340

Phone: (315) 443 - 4752

Fax: (315) 443 - 2258

e-mail: arflanag@syr.edu

TEACH Grant

The College Cost Reduction and Access Act of 2007 created the Teacher Education Assistance for College and Higher Education (TEACH) Grant Program that provides grants of up to \$4,000 per year to students who intend to teach in a public or private elementary or secondary school that serves students from low-income families. More information can be found at <http://financialaid.syr.edu/teach.htm>.

Robert Noyce Scholars Program

The Robert Noyce Scholars program, funded by the National Science Foundation and offered jointly through Syracuse University's College of Arts and Sciences and School of Education, responds to the critical need for mathematics and science teachers by encouraging talented science, technology, engineering, and mathematics (STEM) students and STEM professionals to pursue teaching careers in high-needs K-12 schools.

The funds granted from the Syracuse University Noyce Scholars Program are intended to assist persons who wish to make a commitment to teach science or mathematics in high-needs urban or rural schools. Qualifying undergraduate students receive up to \$10,000 per year for a maximum of three years. Qualifying graduate students receive up to \$20,000 for one year of study. Promising freshman and sophomore STEM majors can receive \$1,200 for a four-week summer internship.

For information please contact:

John W. Tillotson, Associate Professor

Syracuse University Noyce Scholars Program

101 Heroy Lab

Syracuse, NY 13244-1070

315-443-2586

noyce@syr.edu

Undergraduate Program Requirements

DEGREE REQUIREMENTS

All undergraduate programs offered by the School of Education typically require the completion of 120 to 138 credits. Specific program requirements vary, as do the total number of credits.

At several points during teacher preparation programs, reviews of students' progress are made to determine continued eligibility for each program. These review points vary, but in all cases include the time just prior to student teaching. See individual program descriptions for further information.

Field experiences, usually off campus, are required throughout most programs, with placement sites assigned by course instructors or through the field placement office. While convenience is considered in making placement assignments, other factors may preclude the most convenient appointments. The School of Education does what it can to facilitate transportation for field experiences before student teaching. Students are encouraged to provide their own transportation for student-teaching assignments (EDU 508).

SINGLE ENROLLMENT PROGRAMS

All single-enrollment programs lead to a Bachelor of Science (B.S.) degree. Each program requires distribution in liberal arts and sciences, with a total of at least 60 credits in liberal arts.

The School Of Education's Single-Enrollment Programs Are:

- Inclusive Elementary and Special Education
- Health and Exercise Science
- Physical Education
- Selected Studies in Education

DUAL ENROLLMENT PROGRAMS

Expertise in some areas is gained more appropriately by drawing on the course offerings of two colleges within the University. Dual programs within the School of Education require study in a content area and professional education courses (including field experiences), as well as satisfaction of college requirements. They all lead to New York State initial teacher certification.

Students must enroll in both the School of Education and the cooperating college. Dual programs are available in cooperation with the College of Arts and Sciences, the College of Visual and Performing Arts, and the College of Human Ecology. Students typically complete one program offered jointly by the two colleges and, in the case of dual programs with Arts and Sciences, a major in the college reflecting the subject to be taught.

TEACHER PREPARATION PROGRAM FOR BIRTH-2ND GRADE OFFERED WITH THE COLLEGE OF HUMAN ECOLOGY:

- Inclusive Early Childhood Special Education

The School of Education is the primary (home) college for the Inclusive Early Childhood Special Education program

Teacher Preparation Programs For Grades 7-12 Offered With The College Of Arts And Sciences Are:

- English Education
- Mathematics Education
- Science Education
- Social Studies Education

Teacher Preparation Programs For Grades Pre K-12 Offered With The College Of Visual And Performing Arts Are:

- Music Education
- Art Education

These other colleges serve as the primary (home) college. However, although the primary college's policies and procedures are often followed, some policies in the School of Education must also be followed, such as meeting the prerequisites to professional semesters and student teaching, as well as specific arts and sciences course requirements.

Academic And Student Services

The office of Academic and Student Services was created to ensure that students get the most out of their college experience. The staff in the office provides a thorough and effective system of support for both undergraduate and graduate students from the admissions process through graduation and beyond.

From academic support to career advice to information about opportunities to study abroad, the professionals in Academic and Student Services have the experience and knowledge to answer questions, provide advisement, and make referrals as necessary.

Publications

Academic and Student Services publishes a newsletter each semester which provides students, faculty, and staff with current information about certification, career services, and advising. The current and previous newsletters can be found online at http://soe.syr.edu/current/student_services/default.aspx

Forms

Official forms most commonly requested by students can be found in the Office of Academic and Student Services, and also on the website at http://soe.syr.edu/current/student_services/forms.aspx

If a form that is relevant to a specific academic situation cannot be found on the website, students can stop by the Office of Academic and Student Services for assistance.

Academic and Student Services
270 Huntington Hall
Syracuse, NY 13244
315-443-2506 (phone)
315-443-5732 (fax)

Undergraduate Advising

All undergraduate students in the School of Education are encouraged to make use of the facilities of the Office of Academic and Student Services. Located in 270 Huntington Hall, Academic and Student Services has the resources to help students to better understand academic requirements, negotiate academic policies and processes, and get the most out of their college experience.

The mission of Academic and Student Services is to help students succeed by providing information, fostering personal development and responsibility, and offering supportive services. Students have an open invitation to stop by with questions or concerns regarding academic programs, advising, career issues, and certification. If an answer is not provided here, our staff is dedicated to helping students find what they need.

Services available to undergraduates through the Office of Academic and Student Services include the following:

- Advising (faculty and staff)
- Peer Advising
- Admissions
- Academic and Personal Support
- Career Services
- Teacher Certification

Graduate Advising

The Office of Academic and Student Services provides advice and guidance on School of Education and Syracuse University policies, advocates for student concerns, and offers a range of services to assist students as they work toward their academic and career goals.

The mission of Academic and Student Services is to help students succeed by providing information, fostering personal development and responsibility, and offering supportive services. Students have an open invitation to stop by with questions or concerns regarding academic programs, advising, career issues, and certification. If an answer is not provided here, our staff is dedicated to helping students find what they need.

Services available to graduate students through the Office of Academic and Student Services include the following:

- Advising (faculty and staff)
- Admissions
- Academic and Personal Support
- Career Services
- Teacher Certification

Teacher Certification

New York State Certification

Initial Certification

- Is the first New York State certificate and is effective for 5 years from the issuance date.
- Complete School of Education approved undergraduate or graduate teacher prep program.
- Pass New York State teacher exams: LAST (Liberal Arts & Sciences), ATS-W (Assessment of Teaching Skills-Written), and CST (Content Specialty Test).
- Complete fingerprinting process at least 6 months prior to graduation.
- Candidates should apply for this certification within 2 years of graduation to be eligible for School of Education's recommendation.

Professional Certification

- Must be earned before initial certificate expires.
- New York State teacher exams are not required (with the exception of Speech & Language Disabilities).
- Requires completion of a Masters degree in a related area of initial certification.
- Requires completion of 3 years full time teaching employment.
- Requires completion of professional development through school district employer.

Options For Those With Initial Certification Earned At The Bachelors Level

- Earn Masters degree leading to professional certification in area of initial certification.
- Earn Masters degree in a new certification area.
- Earn Masters degree, provided that 12 graduate credits of content related to the initial certificate are completed (as part of the Masters or in addition to it), as specified by New York State (must apply for certification directly to New York State Department of Education).

Checklist Of Steps To File For New York State Certification

- Successfully pass the required New York State Teacher Certification exams. Test dates, registration and preparation guides are available at www.nystce.nesinc.com.
- Apply for fingerprinting clearance at least 6 months prior to graduation at 150 Huntington Hall or call 315-443-2685.

- Meet with an advisor in the Office of Academic and Student Services, 270 Huntington Hall, to confirm that all degree requirements will be completed. Call 315-443-9319.
- Complete the Child Health & Life Safety online seminar. Call 315-443-9319 for more information regarding registration.
- Apply for certification through NYSED TEACH Online Services at www.highered.nysed.gov/tcert/. Directions will be made available prior to graduation.

Recommendation For Certification

- Online certification recommendation will be completed once award date is posted on transcript (typically 4-6 weeks after graduation).

Out-Of-State Teacher Certification

- Each state has specific teacher certification requirements; therefore, it is recommended that students search each state's education department web site for the most up-to-date information.

Child Health & Life Safety Seminar

- If you are in a teacher preparation program leading to a New York State Certification, you are required to complete the Child Health & Life Safety Seminar.
- The Office of Academic and Student Services is offering this mandated seminar in an online format via Blackboard.
- The six required topic areas are: Child Abuse Recognition, Violence Prevention, Alcohol/Drug/Tobacco Prevention, Child Abduction Prevention, Fire and Arson Prevention, and Highway/General Safety.
- The seminar is free of charge to Syracuse University students, who will be eligible for institutional recommendation for New York State Certification and/or need the seminar for graduation.
- Upon completion of the seminar, you will need to arrange to take an online final exam, which is being offered by the Office of Academic and Student Services.
- You must complete the seminar and pass the exam BEFORE student teaching.
- Call 315-443-9319 for more information regarding registration.

Fingerprinting

- Required for New York State certification.
- Apply for fingerprinting clearance at least 6 months prior to graduation.
- Hours for processing are Monday-Friday 9-11am or 2-4pm at 150 Huntington Hall.
- Requires SUID and a \$94.25 money order made payable to New York State Education Department. Cash and personal checks not accepted.
- Call 315-443-2685 for additional inquiries regarding this process.
- Inquiries regarding whether previous fingerprinting applies for certification, please contact Office of School Personnel Review and Accountability, New York State Education Department, 987 Education Building Annex, Albany, NY 12234. Phone 518-473-2998 or email OSPRA@mail.nysed.gov.

Required New York State Teacher Certification Examinations

- LAST – Liberal Arts and Sciences Test
- ATS-W – Elementary and/or Secondary Assessment of Teaching Skills-Written
- CST – Content Specialty Test
- 2 CSTs are required for the Inclusive Elementary and Special Education, Inclusive Early Childhood Special Education and Early Childhood Special Education programs. These tests are the Multi-subject and Students with Disabilities.
- Test dates, registration, preparation guides and general information can be found on the New York State Teacher Certification Examinations web site at: www.nystce.nesinc.com.

New York State Teacher Certification Examinations

2005-2006 Third Year Cohort Update — Program Year: 2005-2006

Test Field/Category	Number Tested	Syracuse University Number Passed	Syracuse University Pass Rate	NY Statewide Pass Rate
Professional Knowledge/ Pedagogy ATS-W (or NTE)	206	206	100%	99%
Academic Content Areas (biology, social studies, multisubject, music CST, visual arts CST)	142	141	99%	95%
Other Content Areas (LAST; Lib Med Spec CST; Phys Ed CST)	249	248	100%	99%
Teaching Special Populations (Literacy CST; Stu w/Disab CST)	83	82	99%	92%

Annual Institution Report — Program Year: 2007-2008

Test Field/Category	Number Tested	Syracuse University Number Passed	Syracuse University Pass Rate	NY Statewide Pass Rate
Professional Knowledge/Pedagogy (ATS-W)	168	168	100%	100%
Academic Content Areas (biology, math, English, multi-subject, etc.)				

	106	105	99%	95%
Other Content Areas (LAST; Lib Med Spec CST)				
	230	218	95%	98%
Teaching Special Populations (Literacy CST; Stu W/Disab. CST)				
	63	63	100%	94%

Annual Institution Report — Program Year: 2008-2009

Test Field/Category	Number Tested	Syracuse University Number Passed	Syracuse University Pass Rate	NY Statewide Pass Rate
Professional Knowledge/Pedagogy ATS-W)				
	184	184	100%	100%
Academic Content Areas (biology, math, English, multi-subject, etc.)				
	139	139	100%	95%
Other Content Areas (LAST; Phys Ed CST; Lib Med Spec CST;)				
	199	199	100%	98%
Teaching Special Populations (Literacy CST; Stu W/Disab. CST)				
	78	77	99%	94%

UNDERGRADUATE PROGRAMS

Program Name	Certification Title
Art Education	Visual Art (All Grades)
English Education	English Language Arts (7-12)
Inclusive Early Childhood Special Education	Early Childhood (Birth-2) and Students with Disabilities (Birth-2)
Inclusive Elementary & Special Education	Childhood Education (1-6) & Special Education/Students with Disabilities (1-6)
Mathematics Education	Mathematics (7-12)
Music Education	Music (All Grades)
Physical Education	Physical Education (All Grades)
Science Education/Biology	Biology (7-12)
Science Education/Chemistry	Chemistry (7-12)
Science Education/Earth Science	Earth Science (7-12)
Science Education/Physics	Physics (7-12)
Social Studies Education	Social Studies (7-12)

Graduate Programs

Program Name	Certification Title
Art Education Prep	Visual Arts (All Grades)

Art Education Professional Certification	Visual Arts (All Grades)
Childhood Education Prep (1-6)	Childhood Education (1-6)
Early Childhood Special Education	Early Childhood Education (Birth-2) and Students with Disabilities (Birth-2)
Educational Leadership	School Building Leader
	School District Leader
English Education Prep (7-12)	English Language Arts (7-12)
Inclusive Special Education Prep (1-6)	Students with Disabilities (1-6)
Inclusive Special Education Prep (7-12)	Special Education/Students with Disabilities (7-12) (to match prior certification)
Inclusive Special Education: Severe/Multiple Disabilities	Students with Disabilities (to match prior certification)
Instructional Technology	Educational Technology Specialist (PreK-12)
* Library & Info Science: School Media	Library Media Specialist (All Grades)
Literacy Education (Birth-6)	Literacy (Birth-6)
Literacy Education (5-12)	Literacy (5-12)
Mathematics Education Prep (7-12)	Mathematics (7-12)
Music Education Prep	Music (All Grades)
Music Education Professional Certification - MS/MMUS	Music (All Grades)
Science/Biology Prep (7-12)	Biology (7-12)
Science/Chemistry Prep (7-12)	Chemistry (7-12)
Science/Earth Science Prep (7-12)	Earth Science (7-12)
Science/Physics Prep (7-12)	Physics (7-12)
School Counseling (M.S.)	School Counselor (Provisional K-12)
School Counseling (C.A.S.)	School Counselor (Permanent K-12)
Social Studies Prep (7-12)	Social Studies (7-12)
** Speech-Language Pathology (NYT)	Speech & Language Disabilities (All Grades)
Teaching English Language Learners	English to Speakers of Other Languages (All Grades)

* Program offered through School of Information Studies

** Program offered through College of Arts & Sciences

Career Services

The School of Education Career Services center offers a variety of services to all Syracuse University students who are seeking positions as teachers, school counselors, school speech and language pathologists, school library media specialists, and school administrators. This office does not place students in positions; rather, it facilitates researching employment opportunities and assists students in the job search. Services provided include setting up a credential file, resume assistance, Teacher Recruitment Days participation and New York State Teacher Certification information.

Credential Files

- Recommended to be opened in the senior year after student teaching placement.
- Contains recommendation letters from host teachers, professors, and employers.
- \$35 registration fee is required to open a file (first 3 mailings are free of charge). Once a file contains at least 3 letters, it is ready to send to prospective employers.
- Copies of the file are sent at request of applicant via email to Linda DeFrees.
- All checks and money orders should be made payable to Syracuse University.
- Application forms are available in 270 Huntington Hall.

This office reserves the right to refuse sending a credential file mailing for any account past 60 days overdue.

Resume And Cover Letter Assistance

- Resource materials available in 270 Huntington Hall.
- Resume and cover letter review and assistance. Please email request for an appointment at Linda DeFrees.

Teacher Recruitment Days

- The annual Central New York Teacher Recruitment Days job fair is held each spring at SUNY Cortland, New York.
- Syracuse University School of Education students will be offered the opportunity to interview with school districts visiting from a variety of schools.

Job Search Handbook For Educators

- This handbook is available free of charge to facilitate the job search. It offers valuable tips for resumes, cover letters and interviewing techniques. It also contains the web site addresses of all state departments of education offices, job hunt strategies and information related to teacher supply and demand per region.

Teaching Opportunities

Explore career opportunity websites.

Teaching Abroad Opportunities

Explore career opportunity websites.

Facilities, Research, Institutes

Supporting Facilities And Special Services

The quality of a student-centered research institution is measured in part by its success in integrating its students' learning experiences and its faculty members' scholarship. In a professional school, the key to that integration lies in sustained, critical, always-respectful engagement with the profession and those it serves. It relies upon creating a community of learners devoted to service. The efforts of our students and faculty members to create such a community are supported by an organizational infrastructure of coordinating councils, teacher centers, professional development schools, subject matter academies, specially-funded research and development projects, and skilled staff members. All are devoted to nurturing collaborative partnerships between preservice educators, University faculty, and practicing professionals in public education, higher education, and other educational and work environments.

RESEARCH AND DEVELOPMENT CENTERS, INSTITUTES, AND PROJECTS

The following centers, institutes, and projects supported through the School of Education focus on educational issues related to research, training, and/or social change.

Center for Digital Literacy
Center for Urban Education in Mathematics and Literacy
Center on Human Policy
Center on Human Policy, Law, and Disability Studies
Continuous Education and Global Outreach
Counseling and Human Services Training Clinic ERIC Clearinghouse on Information Resources
Exercise Biochemistry Laboratory
Exercise Science Teaching Laboratory and Classroom-Ernie Davis Jr. Hall
Facilitated Communication Institute
Fitness/Wellness Research Laboratory
Human Performance Laboratory
IDD&E Interactive Laboratory
The Tutoring and Study Center
Inclusion Institutes
Liberty Partnerships Program
Training Institute for Human Service Planning
Musculoskeletal Research Laboratory
Office of Institutional Research and Assessment
The Systems Change Project
Psychoeducational Teaching Laboratory
The Study Council at Syracuse University Schools of Promise
Regional Holocaust and Genocide Initiative: Resistance, Resilience, and Responsibility
Training Systems Institute
Intergroup Dialogue
The Taishoff Center for Inclusive Higher Education

Academic Offerings

Art Education

Contact: Dr. James H. Rolling Jr, Department of Art, M-17, Skytop, 441 Lambreth Lane, 315-443-2355 or jrolling@syr.edu or Patrice Gavigan pagaviga@syr.edu

School of Education contacts: Carol Radin or Pam Hachey, Academic Advisors, 270 Huntington Hall. 315-443-9319.

College of Visual & Performing Arts contact: Michele Buza, Academic Advisor, 204 Crouse College, 315-443-2517.

The Bachelor of Fine Arts (B.F.A.) degree program in art education emphasizes the studio arts as an exploration of the ideas, materials, and aesthetics through which we shape meanings, negotiate identity and organize society. Students will obtain an expertise in the development of arts-based and design-oriented curricula linked to national and New York State learning standards for the visual arts and promoting multiliteracies, inclusivity, critical inquiry and social responsibility.

In this program, students dually enroll in the College of Visual and Performing Arts and the School of Education. Studio arts courses and interdisciplinary electives are encouraged in combination with educational theory and cultural foundations as students prepare to be professional teachers of art. At a minimum, the B.F.A. degree in art education can be earned with the satisfactory completion of 127 credits.

In the junior year of the program, students have the opportunity to teach art lessons to children ages 5 to 15 in weekly workshops that prepare you for student teaching in local schools in your senior year. The Syracuse University Student Art Education Association, a chapter of the National Art Education Association, is open to both undergraduate and graduate students in art education. This organization is dedicated to offering preservice art teachers, as well as any interested art and preservice education students, opportunities to enrich their pedagogical practice by facilitating social and networking opportunities for professional development, hosting guest speakers, and promoting and practicing outreach and community service through the arts.

After passing the requisite New York State exams (or state-specific certification exam requirements if you plan to teach in another state), you will be eligible for initial certification as an art teacher in grades K-12. Career services are available through the School of Education.

PROGRAM REQUIREMENTS

Foundation 30 credits

Professional education 36 credits

Studio concentration 21 credits

Art history 6 credits

Academic electives 16 credits

Studio electives 15 credits

Academic requirements (WRT 205) 3 credits

Total credits 127

First Year, Fall Semester

ART 101 First-year Colloquium (0 credits)

WRT 105 Writing Studio 1 (3 credits)

FND Studio (6 credits)

Art or design history foundations (3 credits)

Academic electives (3-6 credits)

Total credits 15-18

First Year, Spring Semester

Art or design history (3 credits)

FND studio (3 credits)

FND studio (3 credits)

Academic electives (3-6 credits)

WRT 205 Writing Studio 2 (3 credits)

Total credits 15-18

Sophomore Year, Fall Semester

AED 215 Foundations of Art Education (3 credits)

Studio breadth (3 credits)

Studio depth (3 credits)

Art history (3 credits)

Academic electives (6 credits)

Total credits 15

Sophomore Year, Spring Semester

EDU 204 Learning in Inclusive Classrooms (4 credits)

Studio breadth (6 credits)

Studio depth (3 credits)

Academic elective (3 credits)

Total credits 16

Junior Year, Fall Semester

EDU 304 Study of Teaching (4 credits)

EDU 301 Methods and Practice in Teaching Art (3 credits)

EDU 301 Lab (Saturday workshops) (0 credits)

Studio breadth (3 credits)

Studio depth (3 credits)

Academic elective (3 credits)

Total credits 16

Junior Year, Spring Semester

RED 326 Literacy Across the Curriculum (4 credits)
EDU 302 Methods and Curriculum in Teaching Art (3 credits)
EDU 301 Lab (Saturday workshops) (0 credits)
Studio depth (6 credits)
Academic elective (3 credits)
Total credits 16

Senior Year, Fall Semester

Academic elective (3 credits)
Studio breadth (3 credits)
Studio depth (6 credits)
Art history (3 credits)
Total credits 15

Senior Year, Spring Semester

AED 510 Special Problems in Art Education (3 credits)
EDU 508 Student Teaching (12 credits)
Academic Elective (1 credit)
Total credits 15

One academic elective course must be taken in each of the following areas:

- Mathematics: (MAT 117 or higher) (3 credits)
- Natural Science: (BIO, CHE, AST, EAR, PHY, GEO 155, SCI 104 or 105) (3 credits)
- Humanities (Other than arts related) (3 credits)
- Social Science: (Other than history or psychology) (3 credits)
- Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study. If requirement has already been met, one 3-credit liberal arts elective must be taken in its place.

Required Child Health And Life Safety Seminar Covering The Following Topics:

Identifying/reporting child abuse
Violence prevention
Child abduction prevention
Highway/general safety
Alcohol/drug/tobacco prevention
Fire and arson prevention

Consult with the School of Education, 270 Huntington Hall, regarding other New York State requirements for graduation and certification.

Disabilities Studies Minor

Contact: Steven J. Taylor, 805 S. Crouse Ave., 315-443-3851 or staylo01@syr.edu

The minor in Disability Studies focuses on disability as a social and cultural phenomenon, identity, social construct, and metaphor. Disability Studies applies social, cultural, historical, legal, philosophical, and humanities perspectives to understanding disability in society. Topics covered in Disability Studies include disability law and policy, the sociology, anthropology, geography, and history of disability, the intersection between disability and race, gender, sexuality, and class, the representation of disability in literature, the media, and popular culture, advocacy and self-advocacy, and assistive technology and accommodations for people with disabilities. The Disability Studies minor does not focus on instructional or clinical approaches to disability, but can complement the studies of students in these programs.

The minor requires 18 credits, with 12 credits in Disability Studies courses and 6 credits of electives. At least 12 credits must be taken in 300 level or above courses. Courses must be approved by the student's advisor in Disability Studies. Courses in the minor may be able to be used to fulfill requirements in students' home schools and colleges, at their discretion.

Requirements For Admission:

A minimum grade point average of 2.8 and a one-to-two page personal statement describing the student's interest in the minor in Disability Studies.

Restrictions on Applications: None. Students from any Syracuse University undergraduate program can apply for the minor in Disability Studies.

Core Courses:

Students must take a minimum of 12 credits in Disability Studies courses.

- DSP/SOC/WGS 432 Gender and Disability (3 credits)
- DSP/SOC/WGS 438 Disability & Popular Culture (3 credits)
- DSP/SOC 426 Representations of Ability & Disability (3 credits)
- DSP/SOC 440 Sociology of Disability (submitted to SCC) (3 credits)

- DSP/SPE 357 Deafness and Disability (submitted to SCC) (3 credits)
- DSP 475 Internship in Disability Policy (submitted to SCC) (3 credits)

With the approval of the minor advisor, students may use credits from other Syracuse University courses without a DSP prefix to fulfill the requirement for 12 credits in core courses.

Electives:

Students may take up to 6 credits in electives, subject to the approval of an advisor. Possible courses include, among others:

- CFE/DSP/WGS 362 Youth, Schooling and Popular Culture (3 credits)
- CFE/WGS 444 Schooling and Diversity (3 credits)
- WRT 428 Studies in Composition, Rhetoric, and Literacy (3 credits)
- WRT 440 Studies in the Politics of Language and Writing (3 credits)
- SOC/WGS 355 Sociology of Health and Illness (3 credits)
- SOC/WGS 364 Aging and Society (3 credits)
- SOC/WGS 433 Race, Class, and Gender (3 credits)
- SWK/WGS 326 Human Diversity in Social Contexts (3 credits)
- ANT/WGS 455 Culture and AIDS (3 credits)
- GEO 372 Political Geography (3 credits)
- PSC 328/WGS 318 American Social Movements (3 credits)

Education Studies Minor

Contact: George Theoharis, 153 Huntington Hall, 315-443-5271 or gtheohar@syr.edu

Education studies provide useful skills and experiences for students not enrolled in the School of Education, who go on to pursue careers in communication, business, science, or the arts. The minor in education is purposely broad in scope to allow students to accomplish any and all of the following objectives: (1) to explore education as a professional field of study, (2) to learn about issues in and the practice of education, (3) to prepare for graduate programs in education and related professional fields, and (4) to develop experience in direct work with children and adults through education and counseling.

The minor alone does not provide teacher certification. Students who want to complete prerequisites that will help them more expeditiously complete a master's degree in teaching, counseling, instructional development, or other related education fields should consult with a faculty advisor in education about their career plans. Students interested in teacher certification through an SU undergraduate program must enroll in one of the teaching preparation programs offered by the School of Education (in some cases with another SU college).

Course selection for the minor should be done in consultation with an advisor who is assigned based on the student's area of interest. The minor will consist of 18 credits, including general courses in education and several that are focused on a particular area of education. At least 12 credits must be 300 level or above.

A 2.5 grade point average is required for admittance to the minor.

Core Requirements (Minimum 6 Credits):

Students must take two of the three course options in the core:

- EDU 203 Study of Elementary and Special Education Teaching (3 credits) **OR**
- EDU 304 The Study of Teaching (4 credits)
- EDU 310 The American School (3 credits)

Cluster Requirements (12 Credits):

Note: These thematic groupings are suggested for advisement purposes. Students may, in consultation with an advisor, design an alternative program that better meets their interests. This might involve choosing from more than one cluster or select education courses not currently part of any cluster. Courses subject to availability and permission.

Teaching And Learning

- CFE 221 Social History of American Education (Honors) (3 credits)
- CFE 362/662 Youth, Schooling, and Popular Culture (3 credits)
- COU 585 General Counseling Methods (3 credits)
- EDU 204 Principles of Learning in Inclusive Classrooms (4 credits) **OR**
- EDU 303 Teaching and Learning for Inclusive Schooling (3 credits)
- EDU 270, 470 Experience Credit (1-3 credits)
- EDU 290, 490 Independent Study (1-3 credits)
- PPE 177 Introduction to Physical Education (3 credits)
- SED 522 Study of Social Studies (3 credits)

Exceptionality And Diversity

- EDU 200 American Sign Language I and II (3-6 credits)
- EDU 300 Relating to Peers With Disabilities (3 credits)
- SPE 311 Perspectives on Disabilities (3 credits)
- CFE 444 Schooling and Diversity (3 credits)

Literacy And Language

- EED 547 Children's Literature (3 credits)
- RED 300 Methods and Practice in Literacy Tutoring (3 credits)
- RED 300 Tutoring English Language Overseas (3 credits)

Training And Technology

- IDE 456 Computers as Critical Thinking Tools (3 credits)
- IDE 552 Digital Media Production (3 credits)

Creative Arts

Consent of the instructor needed for these courses

- AED 215 Foundations of Art Education (3 credits)
- MUE 215 Foundations of Music Education (3 credits)
- EDU 431 Art in the Classroom (1 credit)
- EDU 432 Music in the Classroom (1 credit)
- EDU 433 Speech and Drama in the Classroom (1 credit)
- EDU 434 Creative Movement for the Classroom (1 credit)

English Education

Arts And Sciences/Education (Dual)

Arts and Sciences contact :Ann Marie McGinnis, Director, Student Records Office, 329 Hall of Languages, amginnis@syr.edu or 315-443-2205.

Education contacts: Pam Hachey (pkhachey@syr.edu) or Carol Radin (cvsradin@syr.edu), Assistant Directors of Academic Advising, Office of Academic and Student Services, 270 Huntington Hall, 315-443-9319

In order to graduate with eligibility to apply for New York State teacher certification in the secondary (7-12) academic areas of English, mathematics, science, or social studies, dual enrollment with the School of Education is required. Completion of all College of Arts and Sciences requirements (including the Liberal Arts Core with courses from specific categories and a major in one of the listed content areas) combined with 36 credits of education courses (including methods and student teaching) for a total of 123-126 credits are required. In addition, completion of New York State testing and other certification requirements apply. Please see the following detailed information.

The dual programs for prospective teachers provide a broad general education (the Liberal Arts Core of the College of Arts and Sciences), depth in the content area to be taught, and professional coursework and field experiences focusing on the skills and knowledge necessary to teach students from diverse backgrounds and with varying abilities. The programs available are listed below. A minimum of 123-126 credits are required. Some students may need to complete total program credits that are slightly greater than 126.

Students in the dual programs complete a program of study offered jointly by the College of Arts and Sciences and the School of Education: English education; mathematics education; science education (biology, chemistry, earth science, or physics); or social studies education. Students also complete the requirements for a College of Arts and Sciences major in the subject area.

Within the Liberal Arts Core, major, and/or electives, students must include one course from the following:

- mathematics (MAT 112 may not meet this requirement) (3 credits)
- history (3 credits)
- social science course other than history or psychology (3 credits)
- arts and culture/fine arts (3 credits)
- humanities course other than FIA or HST (3 credits)
- approved humanities or social science course with non-Western content (list is available from the education advisor) (3 credits)

When planning their subject areas, students should keep in mind that at least 9 credits of education are required in the spring of the junior year in order to meet the prerequisites for the fall student teaching experience. As many content (subject area) courses as possible should be completed by the end of the junior year. Other electives and remaining Liberal Arts Core courses can be delayed until the spring of the senior year.

All programs meet the academic requirements for New York State initial adolescent certification to teach grades 7-12 in the specified subject. Successful completion of certification examinations is also required for New York State teacher certification.

A core of professional requirements shared by all of these is as follows. Additional liberal arts, professional, and other requirements are described in the specific program sections below. More detailed information is available from the program coordinator.

PROFESSIONAL EDUCATION CORE (INCLUDING REQUIREMENTS OTHER THAN COURSES)

The professional sequence includes coursework, field experience and student teaching, and requirements other than coursework, described below.

The Professional Core Requires:

- EDU 204 Principles of Teaching and Learning in Inclusive Classrooms* (4 credits)
- EDU 304 Study of Teaching* (4 credits)
- EDU 310 American School* (3 credits)
- RED 326 Literacy Across the Curriculum* (4 credits)

Workshops: Identifying/Reporting Child Abuse; Violence Prevention; Child Abduction Prevention; Highway Safety; Alcohol/Drug/Tobacco Prevention; Fire and Arson Prevention.

* EDU 304 and RED 326 should be taken after EDU 204, no later than the first semester of junior year. EDU 204 may be taken as early as the second semester of first year. EDU 310 may be taken before, during, or after professional semesters.

The semesters of registration listed are for students completing the program in four years. Others would adjust accordingly, with the candidacy and second professional semester as late in the program as possible.

Candidacy Semester

(spring of the junior year)

Prerequisites: Enrollment in the specific program; development of an acceptable professional portfolio (reviewed during the fall prior to the candidacy semester); a minimum 2.8 cumulative average, and 2.8 (3.0 for English education) in both required education and in content (subject matter) courses; completion of EDU 204 and 304, RED 326, and the number of content courses required by the program; and appropriate progress toward meeting all of the program assessment proficiencies and dispositions.

Note: SU Abroad study planned for the junior year would need to take place in the fall semester.

- SED 413 or SCE 413 Methods and Curriculum in Teaching (in specific subject area (3 credits)
- SED 409 Adapting Instruction for Diverse Student Needs (3 credits)
- EDU 508 Student Teaching/Secondary Candidacy (including during SU's spring break (3 credits)

Standard Student Teaching Semester

(fall of the senior year)

Prerequisites: Successful completion of the candidacy semester and an acceptable professional portfolio; completion of the required amount of credits in the content area; grade point averages at or above the minimums stated above; successful review of all appropriate student assessment proficiencies and dispositions.

- EDU 508 Student Teaching (9 credits)
- SED 415 Teacher Development (3 credits)

Because this student teaching placement is a full-time, 10-week experience, no other daytime courses can be taken, and it is not advisable to plan more than 12 total credits in this semester, unless approved by an advisor.

Admissions

A minimum of a 2.8 grade point average is required for admission to these Arts and Sciences and Education dual enrollment programs. GPA requirements for admission to the candidacy and standard student teaching semesters, and other prerequisites to these semesters are mentioned above. Additional requirements may apply to some programs.

Intra-University transfer to the School of Education is coordinated through the Office of Academic and Student Services, 270 Huntington Hall. Upon acceptance into a dual program, the student should also complete the official program of study form required by the College of Arts and Sciences. Students may not declare a major in an Arts and Sciences/Education program until they are accepted by the School of Education. Application should be made as soon as possible, but must be made no later than the start of the fall of the junior year by those hoping to complete the program in four years (although even then extra semesters may be necessary).

Advising And Special Services

A dually enrolled student has an advisor in each college or one advisor dually appointed to both colleges. Early contact with the education advisor is important for progress and careful planning. Contact is also required before each registration in order to have the School of Education advising hold lifted.

Students planning graduation from these programs are expected to ensure a senior check has been completed with the School of Education, in addition to similar monitoring by the College of Arts and Sciences. They also may take advantage of the job search services of the Education Career Services Office, 270 Huntington Hall.

English Education

Contact: Kelly Chandler-Olcott, 200 Huntington Hall, 315-443-4755 or kpchandl@syr.edu

In addition to the professional education requirements, students in English education complete a major in English and Textual Studies and the following requirements:

Core Requirements

Secondary English education majors must complete the Liberal Arts Core curriculum with these additional specific requirements:

- WRT 205 Writing Studio 2 **OR**
- WRT 209 Writing Studio 2 (Honors) (3 credits)
- One mathematics (MAT) course from Liberal Arts Core Quantitative Skills List (3 credits)
- One approved history (HST) course (3 credits)
- One social science course (other than history (HST) or psychology (PSY)) (3 credits)
- One fine arts within Arts and Sciences (FIA) course (3 credits)

Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study

English Content

English Education students must complete the English and Textual Studies major as defined by the English Department. Twenty-four credits of the 30 required must be upper-division (300 level and above).

English Education students must include the following courses (not required of other ETS majors) within their majors:

- ETS 325 History and Varieties of English (formerly ETS 333) (3 credits)
- One course concentrating on Shakespeare (3 credits)
- One course with a multicultural (non-Western/ American minority) emphasis (3 credits)
- One upper division WRT course, chosen from WRT 301, 303, 307, **OR** 428 (3 credits)

In addition, students complete one speech communication course from the following:

- CRS 225 Public Advocacy (3 credits)
- CRS 231 Interpersonal Communications (3 credits)
- CRS 235 Small Group Communications (3 credits)
- CRS 325 Presentational Speaking (3 credits)

Exercise Science Minor

Contact: Melissa Tobin, 209 Ernie Davis Hall, 315-443-9800; mmtobin@syr.edu .

Students pursuing major degrees in other program areas may enroll in a minor in exercise science. The exercise science minor requires 18 credits. Students must maintain a minimum 2.5 GPA. To be admitted into the exercise science minor, students must submit a petition to their respective advisor, the chair of the exercise science program, and to the assistant dean for academic and student services in the School of Education.

BIO 216 & BIO 217 (Human Anatomy and Physiology) are prerequisites for many of the courses in this minor.

Core Courses:

Section I: The following courses are required (6 credits):

- PPE 295 Introduction to Exercise Science (3 credits)
- PPE 497 Physiology of Exercise (3 credits)

Section II: Three of the following courses are required (9 credits):

- PPE 408 Analysis of Human Motion (3 credits)
- PPE 483/683 Scientific Principles of Conditioning (3 credits)
- PPE 514 Exercise and Aging (3 credits)
- PPE 515 Graded Exercise Testing and Interpretation (3 credits)
- PPE 517 Pathophysiology (3 credits)
- PPE 518 Cardiac Rehabilitation (3 credits)

Or Any 3 credit 500-level or higher course such as:

- Exercise in the Cell (3 credits)
- Obesity and Body Composition (3 credits)
- Metabolic Aspects of Exercise (3 credits)
- Control of Ventilation in Exercise (3 credits)

Section III: One of the following courses is required* (3 credits):

- PPE 385 Motor Behavior Across the Lifespan (3 credits)
- PPE 486 Prevention and Care of Athletic Injuries (3 credits)
- HEA 485 Worksite Health Promotion (3 credits)

*Or any of the courses listed in Section II not already taken.

Total Credits: 18

Time to Completion Requirement:

The undergraduate minor in exercise science must be completed within five years of declaration if the student is enrolled in an undergraduate degree granting program.

Health And Exercise Science

Contact: Tom Brutsaert, chair, 201 Women's Building, 820 Comstock Avenue, 315-443-2114 or tbrutsa@syr.edu OR Melissa Tobin, Undergraduate Advisor, 315-443-9800 or mmtobin@syr.edu

The B.S. degree in health and exercise science is a non-teaching certification program offering study in the physiological, mechanical and psychological aspects of physical activity and health behavior. There are three tracks from which to choose in health and exercise science.

The general health and exercise science track prepares students for careers in community health and fitness, corporate fitness, clinical physiology, research, medicine, sports medicine

and others. The pre-physical therapy track allows students the opportunity to interchange some courses in order to meet the requirements of graduate study in physical therapy (DPT) while still leaving options open to the other possible career paths listed above. The third track, the 3+3 program with SUNY Upstate Medical University (UMU), allows students the opportunity to spend three years in our health and exercise science program focusing on physical therapy preparation and then continue with three years in the Doctorate of Physical Therapy (DPT) program at SUNY UMU. Students transfer the first year of credits taken from SUNY UMU to SU which then completes their fourth year at SU and grants them a B.S. degree in health and exercise science.

General Health And Exercise Science Program Requirements

Liberal Arts Requirements

WRT 105, WRT 205 Writing Studio I and II (6 credits)
WRT 307 or Advanced Writing Studio, **or**
WRT 407 Advanced Workshop in Professional, Technical, or Disciplinary Writing (3 credits)
CRS 225 **or** CRS 325 **or** CRS 435 Public Advocacy (3 credits)
MAT 221 Elementary Probability and Statistics I (3 credits)
MAT 194 and MAT 285 Precalculus, Calculus I
or
MAT 285, MAT 286 Calculus I and II (6 credits)

Natural Sciences

BIO 121 General Biology II (4 credits)
BIO 123 & BIO 124 General Biology II plus lab (3 credits+1 credit)
BIO 216, BIO 217 Anatomy and Physiology I and II (8 credits)
CHE 106, CHE 116 General Chemistry I and II (6 credits)
CHE 107, CHE 117 General Chemistry Lab I and II (2 credits)
NSD 225 Nutrition in Health (3 credits)

Social Sciences

PSY 205 Foundation of Human Behavior (3 credits)
PSY 223 Introduction to Biopsychology **or**
PSY 315 Drugs and Behavior **or**
PSY 324 Development Biopsychology (3 credits)

Professional Requirements

HEA 332 Personal Health and Safety (3 credits)
HEA 335 First Aid (1 credit)
HEA 336 Cardiopulmonary Resuscitation (1 credit)
HEA 485 Worksite Health Promotion (3 credits)
PPE 295 Introduction to Exercise Science (3 credits)
PPE 408 Analysis of Human Motion (3 credits)
PPE 435 Introduction to Sport Psychology (3 credits)
PPE 483 Scientific Principles of Conditioning (3 credits)
PPE 385 Motor Behavior Across the Lifespan (3 credits)
PPE 486 Prevention and Care of Athletic Injury (3 credits)
PPE 497 Physiology of Exercise (3 credits)
PPE 470 Experience Credit (6 credits)
Two PPE electives any level (6 credits)
Three PPE electives numbered 500 or higher (9 credits)

Electives

Two approved humanities or social science electives (6 credits)
Two approved Arts and Sciences electives (6 credits)
Three open electives (9 credits)

Total Credits 125

Note: Students interested in pursuing an advanced degree in Physical Therapy (and not interested in following the 3+3 program described below) will take 8 credits of physics (includes labs) and 3 credits of child psychology, as required for entrance into physical therapy graduate level programs. These alternate classes will fill elective slots in the exercise science undergraduate track.

Health And Exercise Science Requirements For The 3+3 DPT PROGRAM With SUNY UPSTATE MEDICAL UNIVERSITY

The Changes In Curriculum From The General Health And Exercise Track Is As Follows:

Two PPE electives (6 credits)
No open electives
One Arts & Science elective (3 credits)
Child Psychology (3 credits)
Two Math: Calculus & Statistics (6 credits)
Physics 101 (4 credits)
Physics 102 (4 credits)

Senior Year SUNY Upstate Medical University

PHYT 601 Gross Anatomy (6 credits)
PHYT 621 Foundations Patient/Client Management (3 credits)
PHYT 611 Bioscience I (5 credits)
PHYT 612 Bioscience II (2 credits)
PHYT 625 Movement Analysis I (4 credits)
PHYT 605 Neuroscience (6 credits)
PHYT 616 Interventions II (2 credits)

SU credits 99

SUNY UMU credits 28

Total Credits 127

Inclusive Early Childhood Special Education

Contact: Corinne Smith, Chair, 315-443-1468 or 315-443-2685 or crsmith@syr.edu

This B.S. degree program is a dual program between the School of Education and the College of Human Ecology—with the School of Education as the home school. This program provides you with the professional background you need—a solid core of liberal arts distribution coursework and a concentration in child and family studies from the College of Human Ecology. A cornerstone of IECSE is the extensive and varied series of field experiences it offers. Our Syracuse program is unique, coordinating your coursework with fieldwork in the schools as early as your first semester of study. Many schools and childcare centers in the Syracuse area are at the forefront of inclusive education. Through our close partnerships with local schools and early childhood centers that welcome all students, and with our wide network of urban, suburban, and rural school affiliations, we provide a broad range of opportunities for getting the most out of field experiences.

PROGRAM REQUIREMENTS

Program requirements include liberal arts skills, a concentration in child and family studies, and professional coursework. The program typically requires a minimum of 134 credits. The length varies and can be more than 137 credits, depending on the student's skill background, language completion and other choices made by the student. In most cases, students enroll for more than 15 credits in a semester and/or take summer courses (at SU or other colleges) to complete the degree within four years. Therefore, prospective students not already enrolled in the School of Education are encouraged to consult with the School of Education as early as possible.

Note: Because of the professional education sequence, the study abroad semester for students completing in four years must be spring of the junior year.

Liberal Arts Requirements:

- WRT 105 or WRT 109, and (3credits)
- WRT 205 or WRT 209 (3 credits)
- Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study
- Algebra competency or MAT 112 (0-3 credits)
- MAT 117 and MAT 118 (6 credits)
- SCI 104 and SCI 105 (6 credits)
- U.S. History (3 credits)
- U.S. History II or Global History (3 credits)
- Geography (3 credits)
- Citizenship, Economics, and Government (3 credits)
- Global Perspectives (3 credits)
- Literature (6 credits)
- Additional liberal arts breadth (3 credits)

Child And Family Studies And Social Science Concentration:

- CFS 201 Family Development
- CFS 202 The Development of the Young Child in the Family (3 credits)
- CFS 331 Play, Development and Early Education (3 credits)
- CFS 345 The Developing Infant (3 credits)
- CFS 395 Seminar: Family and Child Intervention (3 credits)
- CFS 367 Child and Family in Cross-Cultural Perspectives (3 credits)
- CFS 447, CFS 479, or CFS 487 (3 credits)
- Social sciences: Three social science courses used to meet distribution requirements. At least one must be 300 level (9 credits)

Professional Education Requirements:

- EDU 203 Study of Elementary and Special Education Teaching (3 credits)
- EDU 201 Practicum in Inclusive Pre-K (1 credit)
- SPE 311 Perspectives on Disabilities (3 credits)
- IDE 200 Integrating Technology into Instruction I 1 (1 credit)
- CFS 432 Foundations and Principles of Early Childhood Education (3 credits)
- CFS 335 Issues and Perspectives in Early Childhood Education (3 credits)
- CSD 303 Communication in the Classroom 3 (3 credits)

Arts in Education (complete 2 credits)

- EDU 431 Art in the Classroom 1 (1 credit)
- EDU 432 Music in the Classroom 1 (1 credit)
- EDU 433 Speech and Drama in the Classroom 1 (1 credit)

Students' progress is reviewed several times through the program against specific proficiencies and other assessment criteria. Students must successfully meet all criteria of a Pre-Block I review process outlined on a checklist available from Academic and Student Services, 270 Huntington Hall. Because these criteria include grades in courses typically completed in the first years, students should become familiar with this checklist early in their study. Reviews also take place to determine eligibility to enter subsequent blocks.

Block I

EED 314 Teaching Strategies for Inclusive Education (3 credits)
EED 325 Primary Grade Literacy Methods and Curriculum (3 credits)
EED 361 Block I Field Experience and Seminar (3 credits)

Block II

EED 323 Primary Grade Math Methods and Curriculum (3 credits)
EED 328 Block II Field Experience (3 credits)
EED 336 Elementary Social Studies Methods and Curriculum (3 credits)
EED 362 Block II Field Seminar (1 credit)
SPE 324 Differentiation for Inclusive Education (3 credits)
EDU 434 Creative Movement for the Classroom (1 credit)
IDE 300 Integrating Technology into Instruction II (1 credit)

Early Childhood Block

Upper-division CFS Early Childhood Methods (6 credits)
SPE 520 Methods and Curriculum in Early Childhood Special Education (3 credits)
EED field experience (3 credits)
IDE 400 Integrating Technology into Instruction III (1 credit)

Student Teaching

EDU 400 Seminar/Student Teaching/Inclusive (3 credits)
EDU 508 Student Teaching/Inclusive Early Childhood Special Education (12 credits)

Required Child Health And Life Safety Seminar Covering The Following Topics:

Identifying/reporting child abuse
Violence prevention
Child abduction prevention
Highway/general safety
Alcohol/drug/tobacco prevention
Fire and arson prevention

Inclusive Elementary And Special Education

Contact: Corinne Smith, Chair, 315-443-1468 or 315-443-2685 or crsmith@syr.edu

This innovative program is designed to prepare graduates for careers in classrooms (grades 1-6) that serve an increasingly diverse student population. In addition to distribution liberal arts courses and depth in a liberal arts area, students take professional courses that integrate within them material on children with both typical and "special" needs who come from diverse cultural backgrounds. Supervised field experiences take place throughout the program at a variety of Syracuse area settings, and include placements in schools that are at the forefront of inclusive education.

PROGRAM REQUIREMENTS

Program requirements include liberal arts skills and distribution courses, a concentration or major of no less than 30 credits in an approved liberal arts and sciences area, and professional coursework. The program typically requires between 132 and 141 credits. The length varies and can be more than 141 credits, depending on the student's skill background, the chosen liberal arts concentration or major, and other choices made by the student. In most cases, students enroll for more than 15 credits in a semester and/or take summer courses (at SU or other colleges) to complete the degree within four years. Therefore, prospective students not already enrolled in the School of Education are encouraged to consult with the School of Education as early as possible. Please note that in choosing courses in the distribution areas below, students must keep their choice of liberal arts concentration or major in mind, including required number of upper division courses, and, whenever possible, choose courses that can also be used toward that concentration or major.

Liberal Arts Requirements:

- WRT 105 or WRT 109 (3 credits)
- WRT 205 or WRT 209 (3 credits)
- Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study
- Algebra competency or MAT 112 (0-3 credits)
- MAT 117 and MAT 118 (6 credits)
- SCI 104 and SCI 105 (6 credits)
- EDU 310 or CFE 221(honors) (3 credits)

- CFE 444 (3 credits)
- U.S. History (3 credits)
- U.S. History II or Global History (3 credits)
- Geography (3 credits)
- Citizenship, Economics, and Government (3 credits)
- Global Perspectives (3 credits)
- Literature (6 credits)
- Additional liberal arts breadth (required only for those completing interdisciplinary concentrations.) Choose one course from the program's list of approved fine arts, philosophy, religion, mathematics or scientific perspectives courses (3credits)

Professional Education Requirements:

- EDU 203 Study of Elementary and Special Education Teaching (3 credits)
- EDU 201 Practicum in Inclusive Pre-K (1 credit)
- EDU 303 Teaching and Learning for Inclusive Schooling (3 credits)
- SPE 311 Perspectives on Disabilities (3 credits)
- CSD 303 Communication in the Classroom 3 (3 credits)
- IDE 200 Integrating Technology into Instruction I 1 (1 credit)

Arts in Education (complete 2 credits)

- EDU 431 Art in the Classroom 1 (1 credit)
- EDU 432 Music in the Classroom 1 (1 credit)
- EDU 433 Speech and Drama in the Classroom 1 (1 credit)

Students' progress is reviewed several times through the program against specific proficiencies and other assessment criteria. Students must successfully meet all criteria of a Pre-Block I review process outlined on a checklist available from Academic and Student Services, 270 Huntington Hall. Because these criteria include grades in courses typically completed in the first years, students should become familiar with this checklist early in their study. Reviews also take place to determine eligibility to enter subsequent blocks.

Block I

EED 314 Teaching Strategies for Inclusive Education (3 credits)
 EED 325 Primary Grades Literacy Methods and Curriculum (3 credits)
 EED 361 Block I Field Experience and Seminar (3 credits)

Block II

EED 323 Primary Grade Mathematics Methods and Curriculum (3 credits)
 EED 328 Block II Field Experience (3 credits)
 EED 336 Elementary Social Studies Methods and Curriculum (3 credits)
 EED 362 Block II Field Seminar (1 credit)
 SPE 324 Differentiation for Inclusive Education (3 credits)
 EDU 434 Creative Movement in the Classroom (1 credit)
 IDE 300 Integrating Technology into Instruction II (1 credit)

Block III

EED 337 Elementary Science Methods and Curriculum (3 credits)
 EED 363 Block III Field Seminar (3 credits)
 EED 423 Intermediate Grade Mathematics Methods and Curriculum (3 credits)
 EED 425 Intermediate Grade Literacy Methods and Curriculum (3 credits)
 EED 438 Block III Field Experience (3 credits)
 SPE 434 Collaborative Teaching for Inclusive Education (3 credits)
 IDE 400 Integrating Technology into Instruction III (1 credit)

Student Teaching Semester

EDU 508 Student Teaching (12 credits)
 EDU 400 Seminar/Student Teaching/Inclusive (3 credits)

The program requires students to complete a 30-credit liberal arts concentration or major. This liberal arts area must be chosen as early as possible, so that maximum overlap between the liberal arts/general education requirements (see above) and the concentration/major may be achieved.

Concentrations Available:

- Human Thought and Expression concentration: study of literature, history, philosophy, religion, gender and ethnic studies, history and the arts, and other humanities;
- People, Places and Societies concentration: study of anthropology, sociology, gender and ethnic studies, international relations, economics, geography, history, political science, and other social sciences;
- Mathematics
- Natural Sciences

Majors Available:

- African American Studies
- Anthropology
- English and Textual Studies;
- History
- Political Science
- Sociology
- Spanish Language, Literature, and Culture

- Women's and Gender Studies

A guide to assist in this choice is available from the Department of Teaching and Leadership, 150 Huntington Hall, or the Office of Academic and Student Services, 270 Huntington Hall.

Required Child Health And Life Safety Seminar Covering The Following Topics:

Identifying/reporting child abuse
 Violence prevention
 Child abduction prevention
 Highway/general safety
 Alcohol/drug/tobacco prevention
 Fire and arson prevention

Mathematics Education

Arts And Sciences/Education (Dual)

Arts and Sciences contact: Ann Marie McGinnis, Director, Student Records Office, 329 Hall of Languages, mcginnis@syr.edu or 315-443-2205.

Education contacts: Pam Hachey (pkhachey@syr.edu) or Carol Radin (cvsradin@syr.edu), Assistant Directors of Academic Advising, Office of Academic and Student Services, 270 Huntington Hall, 315-443-9319

In order to graduate with eligibility to apply for New York State teacher certification in the secondary (7-12) academic areas of English, mathematics, science, or social studies, dual enrollment with the School of Education is required. Completion of all College of Arts and Sciences requirements (including the Liberal Arts Core with courses from specific categories and a major in one of the listed content areas) combined with 36 credits of education courses (including methods and student teaching) for a total of 123-126 credits are required. In addition, completion of New York State testing and other certification requirements apply. Please see the following detailed information.

The dual programs for prospective teachers provide a broad general education (the Liberal Arts Core of the College of Arts and Sciences), depth in the content area to be taught, and professional coursework and field experiences focusing on the skills and knowledge necessary to teach students from diverse backgrounds and with varying abilities. The programs available are listed below. A minimum of 123-126 credits are required. Some students may need to complete total program credits that are slightly greater than 126.

Students in the dual programs complete a program of study offered jointly by the College of Arts and Sciences and the School of Education: English education; mathematics education; science education (biology, chemistry, earth science, or physics); or social studies education. Students also complete the requirements for a College of Arts and Sciences major in the subject area.

Within the Liberal Arts Core, major, and/or electives, students must include one course from the following:

- mathematics (MAT 112 may not meet this requirement) (3 credits)
- history (3 credits)
- social science course other than history or psychology (3 credits)
- arts and culture/fine arts (3 credits)
- humanities course other than FIA or HST (3 credits)
- approved humanities or social science course with non-Western content (list is available from the education advisor) (3 credits)

When planning their subject areas, students should keep in mind that at least 9 credits of education are required in the spring of the junior year in order to meet the prerequisites for the fall student teaching experience. As many content (subject area) courses as possible should be completed by the end of the junior year. Other electives and remaining Liberal Arts Core courses can be delayed until the spring of the senior year.

All programs meet the academic requirements for New York State initial adolescent certification to teach grades 7-12 in the specified subject. Successful completion of certification examinations is also required for New York State teacher certification.

A core of professional requirements shared by all of these is as follows. Additional liberal arts, professional, and other requirements are described in the specific program sections below. More detailed information is available from the program coordinator.

PROFESSIONAL EDUCATION CORE (INCLUDING REQUIREMENTS OTHER THAN COURSES)

The professional sequence includes coursework, field experience and student teaching, and requirements other than coursework, described below.

The Professional Core Requires:

- EDU 204 Principles of Teaching and Learning in Inclusive Classrooms* (4 credits)
- EDU 304 Study of Teaching* (4 credits)
- EDU 310 American School* (3 credits)
- RED 326 Literacy Across the Curriculum* (4 credits)

Workshops: Identifying/Reporting Child Abuse; Violence Prevention; Child Abduction Prevention; Highway Safety; Alcohol/Drug/Tobacco Prevention; Fire and Arson Prevention.

* EDU 304 and RED 326 should be taken after EDU 204, no later than the first semester of junior year. EDU 204 may be taken as early as the second

semester of first year. EDU 310 may be taken before, during, or after professional semesters.

The semesters of registration listed are for students completing the program in four years. Others would adjust accordingly, with the candidacy and second professional semester as late in the program as possible.

Candidacy Semester

(spring of the junior year)

Prerequisites: Enrollment in the specific program; development of an acceptable professional portfolio (reviewed during the fall prior to the candidacy semester); a minimum 2.8 cumulative average, and 2.8 (3.0 for English education) in both required education and in content (subject matter) courses; completion of EDU 204 and 304, RED 326, and the number of content courses required by the program; and appropriate progress toward meeting all of the program assessment proficiencies and dispositions.

- SED 413 or SCE 413 Methods and Curriculum in Teaching (in specific subject area)(3credits)
- SED 409 Adapting Instruction for Diverse Student Needs (3 credits)
- EDU 508 Student Teaching/Secondary Candidacy (including during SU's spring break) (3 credits)

Note: SU Abroad study planned for the junior year would need to take place in the fall semester.

Standard Student Teaching Semester

(fall of the senior year)

Prerequisites: Successful completion of the candidacy semester and an acceptable professional portfolio; completion of the required amount of credits in the content area; grade point averages at or above the minimums stated above; successful review of all appropriate student assessment proficiencies and dispositions.

- EDU 508 Student Teaching (9 credits)
- SED 415 Teacher Development (3 credits)

Because this student teaching placement is a full-time, 10-week experience, no other daytime courses can be taken, and it is not advisable to plan more than 12 total credits in this semester, unless approved by an advisor.

Admissions

A minimum of a 2.8 grade point average is required for admission to these Arts and Sciences and Education dual enrollment programs. GPA requirements for admission to the candidacy and standard student teaching semesters, and other prerequisites to these semesters are mentioned above. Additional requirements may apply to some programs.

Intra-University transfer to the School of Education is coordinated through the Office of Academic and Student Services, 270 Huntington Hall. Upon acceptance into a dual program, the student should also complete the official program of study form required by the College of Arts and Sciences. Students may not declare a major in an Arts and Sciences/Education program until they are accepted by the School of Education. Application should be made as soon as possible, but must be made no later than the start of the fall of the junior year by those hoping to complete the program in four years (although even then extra semesters may be necessary).

Advising And Special Services

A dually enrolled student has an advisor in each college or one advisor dually appointed to both colleges. Early contact with the education advisor is important for progress and careful planning. Contact is also required before each registration in order to have the School of Education advising hold lifted.

Students planning graduation from these programs are expected to ensure a senior check has been completed with the School of Education, in addition to similar monitoring by the College of Arts and Sciences. They also may take advantage of the job search services of the Education Career Services Office, 270 Huntington Hall.

Mathematics Education

Contact: Joanna Masingila, 203 Carnegie Building, 315-443-1483, or jomasing@sy.edu

In addition to the professional education requirements, students in mathematics education complete the Bachelor of Science in mathematics and the following requirements:

Core Requirements

Mathematics education majors must complete the Liberal Arts Core curriculum with these additional specific requirements:

- WRT 205 Writing Studio 2 **OR**
- WRT 209 Writing Studio 2 (Honors) (3 credits)
- One approved history (HST) course (3 credits)
- One social science course (other than history (HST) or psychology (PSY)) (3 credits)
- One fine arts within Arts and Sciences (FIA) course (3 credits)
- One humanities course (cannot be history (HST) or fine arts (FIA) (3 credits)

- One multicultural humanities or social science course two-course sequence in calculus-based physics (3 credits)

Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study

Mathematics Content

- MAT 295 Calculus I (4 credits)
- MAT 275 Introduction to Abstract Mathematics (3 credits)
- MAT 296 Calculus II MAT (4 credits)
- MAT 331 First Course in Linear Algebra (3 credits)
- MAT 397 Calculus III (4 credits)
- MAT 412 Foundations of Calculus (3 credits)
- MAT 512 Introduction to Real Analysis (3 credits)
- MAT 521 Introduction to Probability and Statistics (3 credits)
- MAT 525 Mathematical Statistics **OR**
- MAT 526 Probability (3 credits)
- MAT 531 Second Course in Linear Algebra (3 credits)
- MAT 534 Introduction to Abstract Algebra (3 credits)
- MAT 541 Introduction to Number Theory (3 credits)
- MAT 545 Introduction to Combinatorics (3 credits)
- MAT 551 Fundamental Concepts of Geometry (3 credits)
- MAT 593 History of Mathematics (3 credits)

Music Education

Music Education (Dual Program)

Contact: John Coggiola, 110 Crouse College, 315-443-5896 or jccoggiola@syr.edu

Education contacts: Carol Radin or Pam Hachey, Assistant Directors of Academic Advising, 270 Huntington Hall, 315-443-9319.

College of Visual and Performing Arts contact: Marlene Lee, 200 Crouse College, 315-443-2517

The music education program, which leads to a Bachelor or Music degree, is designed to give students a strong foundation in musical and teaching skills and to enable them to obtain initial certification for public school teaching (pre-k-12) in New York State and other states with which there are reciprocal arrangements.

Music education students are dually enrolled in the Setnor School of Music and the School of Education. They may elect one of five emphases: brass, choral/general, woodwind, percussion, or strings. By graduation, students are expected to have achieved competencies in all the musical disciplines (e.g., principal and secondary performance areas, music history and theory, sight-singing and dictation, and conducting and ensemble participation) in addition to teaching competencies in such areas as classroom management techniques and curriculum development skills. Students must have achieved a 3.0 average in music and education courses, with an overall GPA of at least 2.8 before being permitted to student teach. Students also have opportunities to develop techniques of teaching general music as well as techniques of directing performance groups.

Academic credits are required in the following: 6 credits of social science (psychology or sociology), 3 credits in mathematics, 3 credits in the sciences, and 3 credits of multicultural humanities. Refer to the certification link for information about New York State certification.

Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study. If requirement has already been met, one 3-credit liberal arts elective must be taken in its place.

PROGRAM REQUIREMENTS*

* This is a general list of major requirements for the music education major. Depending on which emphasis students choose (brass, choral/general, woodwind, percussion, or strings), the order of the courses may vary.

First Year, Fall Semester

Weekly Student Convocation (0 credits)
 Principal performance area (2 credits)
 MHL 185 Introduction to World Music (3 credits)
 MTC 145 Diatonic Harmony I (3 credits)
 MTC 147 Ear Training I (1 credit)
 SED 340 Participation in the Professional Development School (0 credits)
 Marching band (ensemble) or
 AMC 545 Diction in Singing I (1-2 credits)
 Piano or Voice (1 credit)
 Ensemble(s) (1 credit)
 WRT 105 Writing Studio 1 (3 credits)
Total credits: 15-16

First Year, Spring Semester

Weekly Student Convocation (0 credits)
Principal performance area (2 credits)
HOM 266 History of European Music Before 1750 (3 credits)
MTC 146 Diatonic Harmony II (3 credits)
MTC 148 Ear Training II (1 credit)
MUE 115 Technology in Music Education (2 credits)
AMC 546 Diction in Singing II (choral/general emphasis only) (2 credits)
SED 340 Participation in the Professional Development School (0 credits)
Ensemble(s) (1 credit)
Piano or voice (1 credit)
WRT 205 Writing Studio 2 (3 credits)
Total credits: 16-18

Sophomore Year, Fall Semester

Weekly Student Convocation (0 credits)
Principal performance area (2 credits)
Secondary performance area (1 credit)
HOM 267 History of European Music 1750-1945 (3 credits)
MTC 245 Chromatic Harmony I (3 credits)
MTC 247 Ear Training III (1 credit)
MUE 310 Field Experience in Music Education (1 credit)
MUE 215 Foundations of Music Education (3 credits)
SED 340 Participation in the Professional Development School (0 credits)
Ensemble(s) (1 credit)
Academic (3 credits)
Total credits: 18

Sophomore Year, Spring Semester

Weekly Student Convocation (0 credits)
Principal performance area (2 credits)
Secondary performance area (1 credit)
HOM 268 European and American Music Since 1945 (3 credits)
MTC 246 Chromatic Harmony II (3 credits)
MTC 248 Ear Training IV (1 credit)
MUE 310 Field Experience in Music Education (1 credit)
SED 340 Participation in the Professional Development School (0 credits)
Ensemble(s) (1 credit)
Academics (6 credits)
Total credits: 18

Junior Year, Fall Semester

Weekly Student Convocation (0 credits)
Principal performance area (1 credit)
Secondary performance area (1 credit)
CTG 545 Basic Conducting (2 credits)
EDU 204 Principles of Learning in Inclusive Classrooms (3 credits)
MUE 333 Music in the Elementary School (2 credits)
EDU 310 The American School (3 credits)
SED 340 Participation in the Professional Development School (0 credits)
Instrumental Methods (1 credit)
Jazz elective (1 credit)
Ensemble(s) (1 credit)
Academic (3 credits)
Total credits: 18

Junior Year, Spring Semester

Weekly Student Convocation (0 credits)
Principal performance area (1 credit)
Secondary performance area (1 credit)
SED 409 Adapting Instruction for Diverse Student Needs (3 credits)
MUE 334 Methods and Materials in General Music (2 credits)
MUE 518 Marching Band Techniques or
MHL 567 Survey of Choral Literature (2 credits)
SED 340 Participation in the Professional Development School (0 credits)
Choral or instrumental conducting (2 credits)
Instrumental methods (1 credit)
Jazz elective (1 credit)
Ensemble(s) (1 credit)
Academic (4 credits)
Total credits: 18

Senior Year, Fall Semester

Weekly Student Convocation (0 credits)
Principal performance area (1 credit)
MUE 321 Teaching of Voice for Schools (1 credit)
RED 326 Literacy Across the Curriculum (3 credits)
MTC 418 Choral Arranging or
MUE 415 Jazz Ensemble Techniques (2 credits)

SED 340 Participation in the Professional Development School (0 credits)
Instrumental methods (1 credit)
Instrumental methods/pedagogy (1 credit)
Instrumental/choral rehearsal techniques (3 credits)
Jazz elective (1 credit)
Ensemble(s) (1 credit)
Academic (3 credits)
Total credits: 17

Senior Year, Spring Semester

EDU 508 Student Teaching (12 credits)

Total Minimum Credits Required: 134

Consult with the School of Education, 270 Huntington Hall, regarding other New York State requirements for graduation.

Required Child Health And Life Safety Seminar Covering The Following Topics:

Identifying/reporting child abuse
Violence prevention
Child abduction prevention
Highway/general safety
Alcohol/drug/tobacco prevention
Fire and arson prevention

Physical Education

Contact: Dr. Sandra Bargainnier, 820 Comstock Ave/Women's Bldg 201/
315-443-9776 or ssbargai@syr.edu

Syracuse University's nationally accredited Bachelor of Science (B.S.) degree in Physical Education meets the academic requirements for New York State initial certification, grades K -12 and teacher certification in states with reciprocal agreements. The New York Physical Education certification also qualifies teacher candidates to coach any sport in any school in the state of New York.

The degree program emphasizes teaching methods that encourage all children to embrace a physically active lifestyle with a focus on urban and inclusive settings. The unique location of Syracuse University and the diversity of the surrounding community provide numerous authentic field experiences in urban and suburban settings alike starting in the first year. The School of Education affords its teacher candidates the advantages of resources found only at a major research university. Our undergraduate studies are enhanced with a strong liberal arts core and rigorous lab science courses. Our small class sizes allow teacher candidates to develop strong, personal relationships with their professors, advisors, and peers.

Teacher candidates spend a minimum of 25 hours in the public schools each academic year, culminating with a student teaching semester during which student teachers develop and teach several units of instruction and become involved with the school community. At a minimum, the B.S. in Physical Education can be earned with the satisfactory completion of 120 credits.

The B.S. in Physical Education requires teacher candidates to attain a 2.8 GPA by the end of the sophomore year (or 60 credits) that includes successful completion of the Biology and Anatomy and Physiology sequences (BIO 121, 123, 124, 216, 217). This GPA must be maintained to enter the junior year professional methods courses and senior year student teaching. Student teaching requirements include successful completion of the Child Health and Life Safety Seminar and CPR and First Aid certification.

Program Requirements

LIBERAL ARTS REQUIREMENTS

MAT 121/221: Prob. and Statistics I (3 credits)
WRT 105: Writing Studio I (3 credits)
WRT 205: Writing Studio II (3 credits)
PSY 205: Foundation in Human Behavior (3 credits)
CRS 225: Public Advocacy
OR CRS 325: Presentational Speaking (3 credits)
Humanities Elective (any) (3 credits)
Humanities Elective (PHI, REL or LIT only) (3 credits)
History (3 credits)
Arts & Sciences elective (any) (3 credits)

Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study. If Language requirement has been met, a 3-credit liberal arts elective must be taken in its place.

Natural Sciences

BIO 121: General Biology I (4 credits)
BIO 123: General Biology II (3 credits)
BIO 124: General Biology II Lab (1 credit)
BIO 216: Anatomy and Physiology I (4 credits)
BIO 217: Anatomy and Physiology II (4 credits)
NSD 225 Nutrition in Health (3 credits)

Professional Physical Education

PPE 177: Intro Health & Physical Education (3 credits)
PPE 235: Teaching Health-Related Fitness (3 credits)
PPE 381: Phys. Ed. Methods: Elementary (3 credits)
PPE 383: Phys. Ed. Methods: Secondary (3 credits)
PPE 385: Motor Behavior Across the Lifespan (3 credits)
PPE 394: Assessment & Curriculum in HPE (3 credits)
PPE 408: Analysis of Human Motion (Biomechanics) (3 credits)
PPE 415: Teacher Development in Physical Ed (1 credit)
PPE 481: Adapted Physical Education (3 credits)
PPE 497: Physiology of Exercise (3 credits)

Professional Education

EDU 204: Princ of Learning in Incl Classrm (4 credits)
EDU 304: Study of Teaching (4 credits)
EDU 508: Student Teaching K-12 (12 credits)
RED 326: Literacy Across Curriculum (4 credits)
SPE 311: Perspectives on Disabilities (3 credits)
CFE/WSP: 444 Schooling & Diversity (3 credits)
or EDU: 310 American School

Technology (Choose 3 Credits)

*IDE 200: Integrating Tech in Classroom I (1 credit)
*IDE 300: Integrating Tech in Classroom II (1 credit)
*IDE 400: Integrating Tech in Classroom III (1 credit)
IST 195: Information Technologies (3 credits)
IDE 400/656 Computers as Critical Thinking Tools (3 credits)
***preferred**

Activity Courses (10 Credits Total)

Required Activity Courses

PED 240: Individual/Dual Sports (1 credit)
PED 250: Team Sports (1 credit)
PED 262: Gymnastics (1 credit)
PED 209: Adventure Activities 1 (1 credit)

Aquatics

(choose 2 credits)

PED 211: Beginning Swimming (1 credit)
PED 212: Intermediate Swimming (1 credit)
PED 213: Advanced Swimming (1 credit)
PED 216: *Water Safety Instruction (2 credits)
PED 217: Lifeguarding (1 credit)
***recommend WSI certification prior to student teaching**

Dance/Aesthetics (Choose One)

DTS 231: Intro to Dance (1 credit)
DTS 228: Social Dance (1 credit)
DTS 233: African Dance (1 credit)

Required Child Health And Life Safety Seminar Covering The Following Topics:

Identifying/reporting child abuse
Violence prevention
Child abduction prevention
Highway/general safety
Alcohol/drug/tobacco prevention
Fire and arson prevention

***CPR/AED/FA certification must be valid during student teaching**
***WSI certification recommended prior to student teaching**

Physical Education (Coaching) Minor

Contact: Melissa Tobin 209 Ernie Davis Hall 315-443-9800 or mmtobin@syr.edu

The coaching minor is designed for students who wish to coach in secondary schools. Coursework extends beyond the 13 credits required for the New York State Temporary Coaching License. Prerequisite: 2.0 grade point average.

CorE Courses:

PPE 295* Introduction to Exercise Science (fall) (3 credits)
HEA 335* First Aid (1 credit)
HEA 336* Cardiopulmonary Resuscitation (1 credit)
PPE 325* Introduction to Coaching (3 credits)
PPE 326* Practicum in Coaching (2 credits)
PPE 435 Introduction to Sport Psychology (fall) (3 credits)
PPE 385 Motor Behavior Across the Lifespan (spring) (3 credits)
PPE 486* Prevention and Care of Athletic Injuries (spring) (3 credits)

Recommended Additional Courses:

NSD 225 Nutrition in Health (3 credits)
PPE 483 Scientific Principles of Conditioning (3 credits)

Total credits: 19

*New York State Temporary Coaching License requirements

Time to Completion Requirement:

The undergraduate minor in coaching must be completed within five years of declaration if the student is enrolled in an undergraduate degree granting program.

Science Education-Biology

Arts And Sciences/Education (Dual)

Arts and Sciences contact: Ann Marie McGinnis, Director, Student Records Office, 329 Hall of Languages, mcginnis@syr.edu or 315-443-2205.

Education contacts: Pam Hachey (pkhachey@syr.edu) or Carol Radin (cvradin@syr.edu), Assistant Directors of Academic Advising, Office of Academic and Student Services, 270 Huntington Hall, 315-443-9319

In order to graduate with eligibility to apply for New York State teacher certification in the secondary (7-12) academic areas of English, mathematics, science, or social studies, dual enrollment with the School of Education is required. Completion of all College of Arts and Sciences requirements (including the Liberal Arts Core with courses from specific categories and a major in one of the listed content areas) combined with 36 credits of education courses (including methods and student teaching) for a total of 123-126 credits are required. In addition, completion of New York State testing and other certification requirements apply. Please see the following detailed information.

The dual programs for prospective teachers provide a broad general education (the Liberal Arts Core of the College of Arts and Sciences), depth in the content area to be taught, and professional coursework and field experiences focusing on the skills and knowledge necessary to teach students from diverse backgrounds and with varying abilities. The programs available are listed below. A minimum of 123-126 credits are required. Some students may need to complete total program credits that are slightly greater than 126.

Students in the dual programs complete a program of study offered jointly by the College of Arts and Sciences and the School of Education: English education; mathematics education; science education (biology, chemistry, earth science, or physics); or social studies education. Students also complete the requirements for a College of Arts and Sciences major in the subject area.

Within the Liberal Arts Core, major, and/or electives, students must include one course from the following:

- mathematics (MAT 112 may not meet this requirement) (3 credits)
- history (3 credits)
- social science course other than history or psychology (3 credits)
- arts and culture/fine arts (3 credits)
- humanities course other than FIA or HST (3 credits)
- approved humanities or social science course with non-Western content (list is available from the education advisor) (3 credits)

When planning their subject areas, students should keep in mind that at least 9 credits of education are required in the spring of the junior year in order to meet the prerequisites for the fall student teaching experience. As many content (subject area) courses as possible should be completed by the end of the junior year. Other electives and remaining Liberal Arts Core courses can be delayed until the spring of the senior year.

All programs meet the academic requirements for New York State initial adolescent certification to teach grades 7-12 in the specified subject. Successful completion of certification examinations is also required for New York State teacher certification.

A core of professional requirements shared by all of these is as follows. Additional liberal arts, professional, and other requirements are described in the

specific program sections below. More detailed information is available from the program coordinator.

PROFESSIONAL EDUCATION CORE (INCLUDING REQUIREMENTS OTHER THAN COURSES)

The professional sequence includes coursework, field experience and student teaching, and requirements other than coursework, described below.

The Professional Core Requires:

- EDU 204 Principles of Teaching and Learning in Inclusive Classrooms* (4 credits)
- EDU 304 Study of Teaching* (4 credits)
- EDU 310 American School* (3 credits)
- RED 326 Literacy Across the Curriculum* (4 credits)

Workshops:

Identifying/Reporting Child Abuse; Violence Prevention; Child Abduction Prevention; Highway Safety; Alcohol/Drug/Tobacco Prevention; Fire and Arson Prevention.

* EDU 304 and RED 326 should be taken after EDU 204, no later than the first semester of junior year. EDU 204 may be taken as early as the second semester of first year. EDU 310 may be taken before, during, or after professional semesters.

The semesters of registration listed are for students completing the program in four years. Others would adjust accordingly, with the candidacy and second professional semester as late in the program as possible.

Candidacy Semester

(spring of the junior year)

Prerequisites: Enrollment in the specific program; development of an acceptable professional portfolio (reviewed during the fall prior to the candidacy semester); a minimum 2.8 cumulative average, and 2.8 (3.0 for English education) in both required education and in content (subject matter) courses; completion of EDU 204 and 304, RED 326, and the number of content courses required by the program; and appropriate progress toward meeting all of the program assessment proficiencies and dispositions.

Note: SU Abroad study planned for the junior year would need to take place in the fall semester.

- SED 413 or SCE 413 Methods and Curriculum in Teaching (in specific subject area) (3 credits)
- SED 409 Adapting Instruction for Diverse Student Needs (3 credits)
- EDU 508 Student Teaching/Secondary Candidacy (including during SU's spring break) (3 credits)

Standard Student Teaching Semester

(fall of the senior year)

Prerequisites: Successful completion of the candidacy semester and an acceptable professional portfolio; completion of the required amount of credits in the content area; grade point averages at or above the minimums stated above; successful review of all appropriate student assessment proficiencies and dispositions.

- EDU 508 Student Teaching (9 credits)
- SED 415 Teacher Development (3 credits)

Because this student teaching placement is a full-time, 10-week experience, no other daytime courses can be taken, and it is not advisable to plan more than 12 total credits in this semester, unless approved by an advisor.

Admissions

A minimum of a 2.8 grade point average is required for admission to these Arts and Sciences and Education dual enrollment programs. GPA requirements for admission to the candidacy and standard student teaching semesters, and other prerequisites to these semesters are mentioned above. Additional requirements may apply to some programs.

Intra-University transfer to the School of Education is coordinated through the Office of Academic and Student Services, 270 Huntington Hall. Upon acceptance into a dual program, the student should also complete the official program of study form required by the College of Arts and Sciences. Students may not declare a major in an Arts and Sciences/Education program until they are accepted by the School of Education. Application should be made as soon as possible, but must be made no later than the start of the fall of the junior year by those hoping to complete the program in four years (although even then extra semesters may be necessary).

Advising And Special Services

A dually enrolled student has an advisor in each college or one advisor dually appointed to both colleges. Early contact with the education advisor is important for progress and careful planning. Contact is also required before each registration in order to have the School of Education advising hold lifted.

Students planning graduation from these programs are expected to ensure a senior check has been completed with the School of Education, in addition to similar monitoring by the College of Arts and Sciences. They also may take advantage of the job search services of the Education Career Services Office, 270 Huntington Hall.

Science Education-Biology

Contact: John W. Tillotson, 101 Heroy Building, 315-443-2586, jwtillot@syr.edu

In addition to the professional education requirements, students in science education complete the Bachelor of Arts* with a major in the primary science area and the following requirements:

Core Requirements

Science education majors must complete the Liberal Arts Core curriculum with these additional specific requirements:

- One approved history (HST) course (3 credits)
- One social science course (other than history (HST) or psychology (PSY)) (3 credits)
- One fine arts within Arts and Sciences (FIA) course (3 credits)
- One humanities course (other than history (HST) or fine arts (FIA) (3 credits)
- One multicultural humanities or social science course (3 credits)
- One approved calculus course (3 credits)

Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study.

Science Content

Science majors are required to complete a major of no less than 30 credits in an area chosen from biology, chemistry, geology (earth science), or physics.

In addition to, or as part of, the major, students must complete an introductory laboratory sequence in a second science area.

*The B.S. degree may be earned in the primary science area instead of the B.A. with the completion of additional science requirements, paperwork, and an appropriate petition.

** See specific departmental major course requirements for biology.

Science Education-Chemistry

Arts And Sciences/Education (Dual)

Arts and Sciences contact: Ann Marie McGinnis, Director, Student Records Office, 329 Hall of Languages, mcginnis@syr.edu 315-443-2205.

Education contacts: Pam Hachey (pkhachey@syr.edu) or Carol Radin (cvradin@syr.edu), Assistant Directors of Academic Advising, Office of Academic and Student Services, 270 Huntington Hall, 315-443-9319

In order to graduate with eligibility to apply for New York State teacher certification in the secondary (7-12) academic areas of English, mathematics, science, or social studies, dual enrollment with the School of Education is required. Completion of all College of Arts and Sciences requirements (including the Liberal Arts Core with courses from specific categories and a major in one of the listed content areas) combined with 36 credits of education courses (including methods and student teaching) for a total of 123-126 credits are required. In addition, completion of New York State testing and other certification requirements apply. Please see the following detailed information.

The dual programs for prospective teachers provide a broad general education (the Liberal Arts Core of the College of Arts and Sciences), depth in the content area to be taught, and professional coursework and field experiences focusing on the skills and knowledge necessary to teach students from diverse backgrounds and with varying abilities. The programs available are listed below. A minimum of 123-126 credits are required. Some students may need to complete total program credits that are slightly greater than 126.

Students in the dual programs complete a program of study offered jointly by the College of Arts and Sciences and the School of Education: English education; mathematics education; science education (biology, chemistry, earth science, or physics); or social studies education. Students also complete the requirements for a College of Arts and Sciences major in the subject area.

Within the Liberal Arts Core, major, and/or electives, students must include one course from the following:

- mathematics (MAT 112 may not meet this requirement) (3 credits)
- history (3 credits)
- social science course other than history or psychology (3 credits)
- arts and culture/fine arts (3 credits)
- humanities course other than FIA or HST (3 credits)
- approved humanities or social science course with non-Western content (list is available from the education advisor) (3 credits)

When planning their subject areas, students should keep in mind that at least 9 credits of education are required in the spring of the junior year in order to meet the prerequisites for the fall student teaching experience. As many content (subject area) courses as possible should be completed by the end of the junior year. Other electives and remaining Liberal Arts Core courses can be delayed until the spring of the senior year.

All programs meet the academic requirements for New York State initial adolescent certification to teach grades 7-12 in the specified subject. Successful completion of certification examinations is also required for New York State teacher certification.

A core of professional requirements shared by all of these is as follows. Additional liberal arts, professional, and other requirements are described in the specific program sections below. More detailed information is available from the program coordinator.

PROFESSIONAL EDUCATION CORE (INCLUDING REQUIREMENTS OTHER THAN COURSES)

The professional sequence includes coursework, field experience and student teaching, and requirements other than coursework, described below.

The Professional Core Requires:

- EDU 204 Principles of Teaching and Learning in Inclusive Classrooms* (4 credits)
- EDU 304 Study of Teaching* (4 credits)
- EDU 310 American School* (3 credits)
- RED 326 Literacy Across the Curriculum* (4 credits)

Workshops:

Identifying/Reporting Child Abuse; Violence Prevention; Child Abduction Prevention; Highway Safety; Alcohol/Drug/Tobacco Prevention; Fire and Arson Prevention.

* EDU 304 and RED 326 should be taken after EDU 204, no later than the first semester of junior year. EDU 204 may be taken as early as the second semester of first year. EDU 310 may be taken before, during, or after professional semesters.

The semesters of registration listed are for students completing the program in four years. Others would adjust accordingly, with the candidacy and second professional semester as late in the program as possible.

Candidacy Semester

(spring of the junior year)

Prerequisites: Enrollment in the specific program; development of an acceptable professional portfolio (reviewed during the fall prior to the candidacy semester); a minimum 2.8 cumulative average, and 2.8 (3.0 for English education) in both required education and in content (subject matter) courses; completion of EDU 204 and 304, RED 326, and the number of content courses required by the program; and appropriate progress toward meeting all of the program assessment proficiencies and dispositions.

Note: SU Abroad study planned for the junior year would need to take place in the fall semester.

- SED 413 or SCE 413 Methods and Curriculum in Teaching (in specific subject area) (3 credits)
- SED 409 Adapting Instruction for Diverse Student Needs (3 credits)
- EDU 508 Student Teaching/Secondary Candidacy (including during SU's spring break) (3 credits)

Standard Student Teaching Semester

(fall of the senior year)

Prerequisites: Successful completion of the candidacy semester and acceptable professional portfolio; completion of the required amount of credits in the content area; grade point averages at or above the minimums stated above; successful review of all appropriate student assessment proficiencies and dispositions.

- EDU 508 Student Teaching (9 credits)
- SED 415 Teacher Development (3 credits)

Because this student teaching placement is a full-time, 10-week experience, no other daytime courses can be taken, and it is not advisable to plan more than 12 total credits in this semester, unless approved by an advisor.

Admissions

A minimum of a 2.8 grade point average is required for admission to these Arts and Sciences and Education dual enrollment programs. GPA requirements for admission to the candidacy and standard student teaching semesters, and other prerequisites to these semesters are mentioned above. Additional requirements may apply to some programs.

Intra-University transfer to the School of Education is coordinated through the Office of Academic and Student Services, 270 Huntington Hall. Upon acceptance into a dual program, the student should also complete the official program of study form required by the College of Arts and Sciences. Students may not declare a major in an Arts and Sciences/Education program until they are accepted by the School of Education. Application should be made as soon as possible, but must be made no later than the start of the fall of the junior year by those hoping to complete the program in four years (although even then extra semesters may be necessary).

Advising And Special Services

A dually enrolled student has an advisor in each college or one advisor dually appointed to both colleges. Early contact with the education advisor is important for progress and careful planning. Contact is also required before each registration in order to have the School of Education advising hold lifted.

Students planning graduation from these programs are expected to ensure a senior check has been completed with the School of Education, in addition to similar monitoring by the College of Arts and Sciences. They also may take advantage of the job search services of the Education Career Services Office, 270 Huntington Hall.

Science Education-Chemistry

Contact: John W. Tillotson, 101 Heroy Building, 315-443-2586, jwtillot@syr.edu

In addition to the professional education requirements, students in science education complete the Bachelor of Arts.* with a major in the primary science area and the following requirements:

Core Requirements

Science education majors must complete the Liberal Arts Core curriculum with these additional specific requirements:

- One approved history (HST) course (3 credits)
- One social science course (other than history (HST) or psychology (PSY)) (3 credits)
- One fine arts within Arts and Sciences (FIA) course (3 credits)
- One humanities course (other than history (HST) or fine arts (FIA) (3 credits)
- One multicultural humanities or social science course (3 credits)
- One approved calculus course (3 credits)

Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study.

Science Content

Science majors are required to complete a major of no less than 30 credits in an area chosen from biology, chemistry, geology (earth science), or physics.

In addition to, or as part of, the major, students must complete an introductory laboratory sequence in a second science area.

*The B.S. degree may be earned in the primary science area instead of the B.A. with the completion of additional science requirements, paperwork, and an appropriate petition.

** See specific departmental major course requirements for chemistry.

Science Education-Earth Science

Arts And Sciences/Education (Dual)

Arts and Sciences contact: Ann Marie McGinnis, Director, Student Records Office, 329 Hall of Languages, mcginnis@syr.edu or 315-443-2205.

Education contacts: Pam Hachey (pkhachey@syr.edu) or Carol Radin (cvradin@syr.edu), Assistant Directors of Academic Advising, Office of Academic and Student Services, 270 Huntington Hall, 315-443-9319

In order to graduate with eligibility to apply for New York State teacher certification in the secondary (7-12) academic areas of English, mathematics, science, or social studies, dual enrollment with the School of Education is required. Completion of all College of Arts and Sciences requirements (including the Liberal Arts Core with courses from specific categories and a major in one of the listed content areas) combined with 36 credits of education courses (including methods and student teaching) for a total of 123-126 credits are required. In addition, completion of New York State testing and other certification requirements apply. Please see the following detailed information.

The dual programs for prospective teachers provide a broad general education (the Liberal Arts Core of the College of Arts and Sciences), depth in the content area to be taught, and professional coursework and field experiences focusing on the skills and knowledge necessary to teach students from diverse backgrounds and with varying abilities. The programs available are listed below. A minimum of 123-126 credits are required. Some students may need to complete total program credits that are slightly greater than 126.

Students in the dual programs complete a program of study offered jointly by the College of Arts and Sciences and the School of Education: English education; mathematics education; science education (biology, chemistry, earth science, or physics); or social studies education. Students also complete the requirements for a College of Arts and Sciences major in the subject area.

Within the Liberal Arts Core, major, and/or electives, students must include one course from the following:

- mathematics (MAT 112 may not meet this requirement) (3 credits)
- history (3 credits)
- social science course other than history or psychology (3 credits)
- arts and culture/fine arts (3 credits)
- humanities course other than FIA or HST (3 credits)
- approved humanities or social science course with non-Western content (list is available from the education advisor) (3 credits)

When planning their subject areas, students should keep in mind that at least 9 credits of education are required in the spring of the junior year in order to meet the prerequisites for the fall student teaching experience. As many content (subject area) courses as possible should be completed by the end of the junior year. Other electives and remaining Liberal Arts Core courses can be delayed until the spring of the senior year.

All programs meet the academic requirements for New York State initial adolescent certification to teach grades 7-12 in the specified subject. Successful completion of certification examinations is also required for New York State teacher certification.

A core of professional requirements shared by all of these is as follows. Additional liberal arts, professional, and other requirements are described in the specific program sections below. More detailed information is available from the program coordinator.

PROFESSIONAL EDUCATION CORE (INCLUDING REQUIREMENTS OTHER THAN COURSES)

The professional sequence includes coursework, field experience and student teaching, and requirements other than coursework, described below.

The Professional Core Requires:

EDU 204 Principles of Teaching and Learning in Inclusive Classrooms* (4 credits)
EDU 304 Study of Teaching* (4 credits)
EDU 310 American School* (3 credits)
RED 326 Literacy Across the Curriculum* (4 credits)

Workshops:

Identifying/Reporting Child Abuse; Violence Prevention; Child Abduction Prevention; Highway Safety; Alcohol/Drug/Tobacco Prevention; Fire and Arson Prevention.

* EDU 304 and RED 326 should be taken after EDU 204, no later than the first semester of junior year. EDU 204 may be taken as early as the second semester of first year. EDU 310 may be taken before, during, or after professional semesters.

The semesters of registration listed are for students completing the program in four years. Others would adjust accordingly, with the candidacy and second professional semester as late in the program as possible.

Candidacy Semester

(spring of the junior year)

Prerequisites: Enrollment in the specific program; development of an acceptable professional portfolio (reviewed during the fall prior to the candidacy semester); a minimum 2.8 cumulative average, and 2.8 (3.0 for English education) in both required education and in content (subject matter) courses; completion of EDU 204 and 304, RED 326, and the number of content courses required by the program; and appropriate progress toward meeting all of the program assessment proficiencies and dispositions.

Note: SU Abroad study planned for the junior year would need to take place in the fall semester.

- SED 413 or SCE 413 Methods and Curriculum in Teaching (in specific subject area) (3 credits)
- SED 409 Adapting Instruction for Diverse Student Needs (3 credits)
- EDU 508 Student Teaching/Secondary Candidacy (including during SU's spring break) (3 credits)

Standard Student Teaching Semester

(fall of the senior year)

Prerequisites: Successful completion of the candidacy semester and an acceptable professional portfolio; completion of the required amount of credits in the content area; grade point averages at or above the minimums stated above; successful review of all appropriate student assessment proficiencies and dispositions.

- EDU 508 Student Teaching (9 credits)
- SED 415 Teacher Development (3 credits)

Because this student teaching placement is a full-time, 10-week experience, no other daytime courses can be taken, and it is not advisable to plan more than 12 total credits in this semester, unless approved by an advisor.

Admissions

A minimum of a 2.8 grade point average is required for admission to these Arts and Sciences and Education dual enrollment programs. GPA requirements for admission to the candidacy and standard student teaching semesters, and other prerequisites to these semesters are mentioned above. Additional requirements may apply to some programs.

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Advising And Special Services

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Science Education-Earth Science

Contact: John W. Tillotson, 101 Heroy Building, 315-443-2586, jwtilot@syr.edu

In addition to the professional education requirements, students in science education complete the Bachelor of Arts* with a major in the primary science area and the following requirements:

Core Requirements

Science education majors must complete the Liberal Arts Core curriculum with these additional specific requirements:

- One approved history (HST) course (3 credits)
- One social science course (other than history (HST) or psychology (PSY)) (3 credits)
- One fine arts within Arts and Sciences (FIA) course (3 credits)
- One humanities course (other than history (HST) or fine arts (FIA)) (3 credits)
- One multicultural humanities or social science course (3 credits)
- One approved calculus course (3 credits)

Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study.

Science Content

Science majors are required to complete a major of no less than 30 credits in an area chosen from biology, chemistry, geology (earth science), or physics.

In addition to, or as part of, the major, students must complete an introductory laboratory sequence in a second science area.

*The B.S. degree may be earned in the primary science area instead of the B.A. with the completion of additional science requirements, paperwork, and an appropriate petition.

** See specific departmental major course requirements for earth science.

Science Education-Physics

Arts And Sciences/Education (Dual)

Arts and Sciences contact: Ann Marie McGinnis, Director, Student Records Office, 329 Hall of Languages, mcginnis@syr.edu or 315-443-2205.

Education contacts: Pam Hachey (pkhachey@syr.edu) or Carol Radin (cvsradin@syr.edu), Assistant Directors of Academic Advising, Office of Academic and Student Services, 270 Huntington Hall, 315-443-9319

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The dual programs for prospective teachers provide a broad general education (the Liberal Arts Core of the College of Arts and Sciences), depth in the content area to be taught, and professional coursework and field experiences focusing on the skills and knowledge necessary to teach students from diverse backgrounds and with varying abilities. The programs available are listed below. A minimum of 123-126 credits are required. Some students may need to complete total program credits that are slightly greater than 126.

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- social science course other than history or psychology (3 credits)
- arts and culture/fine arts (3 credits)
- humanities course other than FIA or HST (3 credits)
- approved humanities or social science course with non-Western content (list is available from the education advisor) (3 credits)

When planning their subject areas, students should keep in mind that at least 9 credits of education are required in the spring of the junior year in order to meet the prerequisites for the fall student teaching experience. As many content (subject area) courses as possible should be completed by the end of the junior year. Other electives and remaining Liberal Arts Core courses can be delayed until the spring of the senior year.

All programs meet the academic requirements for New York State initial adolescent certification to teach grades 7-12 in the specified subject. Successful completion of certification examinations is also required for New York State teacher certification.

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- EDU 310 American School* (3 credits)

- RED 326 Literacy Across the Curriculum* (4 credits)

Workshops:

Identifying/Reporting Child Abuse; Violence Prevention; Child Abduction Prevention; Highway Safety; Alcohol/Drug/Tobacco Prevention; Fire and Arson Prevention.

* EDU 304 and RED 326 should be taken after EDU 204, no later than the first semester of junior year. EDU 204 may be taken as early as the second semester of first year. EDU 310 may be taken before, during, or after professional semesters.

The semesters of registration listed are for students completing the program in four years. Others would adjust accordingly, with the candidacy and second professional semester as late in the program as possible.

Candidacy Semester

(spring of the junior year)

Prerequisites: Enrollment in the specific program; development of an acceptable professional portfolio (reviewed during the fall prior to the candidacy semester); a minimum 2.8 cumulative average, and 2.8 (3.0 for English education) in both required education and in content (subject matter) courses; completion of EDU 204 and 304, RED 326, and the number of content courses required by the program; and appropriate progress toward meeting all of the program assessment proficiencies and dispositions.

Note: SU Abroad study planned for the junior year would need to take place in the fall semester.

- SED 413 or SCE 413 Methods and Curriculum in Teaching (in specific subject area) (3 credits)
- SED 409 Adapting Instruction for Diverse Student Needs (3 credits)
- EDU 508 Student Teaching/Secondary Candidacy (including during SU's spring break) (3 credits)

Standard Student Teaching Semester

(fall of the senior year)

Prerequisites: Successful completion of the candidacy semester and an acceptable professional portfolio; completion of the required amount of credits in the content area; grade point averages at or above the minimums stated above; successful review of all appropriate student assessment proficiencies and dispositions.

- EDU 508 Student Teaching (9 credits)
- SED 415 Teacher Development (3 credits)

Because this student teaching placement is a full-time, 10-week experience, no other daytime courses can be taken, and it is not advisable to plan more than 12 total credits in this semester, unless approved by an advisor.

Admissions

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Advising And Special Services

A dually enrolled student has an advisor in each college or one advisor dually appointed to both colleges. Early contact with the education advisor is important for progress and careful planning. Contact is also required before each registration in order to have the School of Education advising hold lifted.

Students planning graduation from these programs are expected to ensure a senior check has been completed with the School of Education, in addition to similar monitoring by the College of Arts and Sciences. They also may take advantage of the job search services of the Education Career Services Office, 270 Huntington Hall.

Science Education-Physics

Contact: John W. Tillotson, 101 Heroy Building, 315-443-2586, jwtilot@syr.edu

In addition to the professional education requirements, students in science education complete the Bachelor of Arts* with a major in the primary science area and the following requirements:

Core Requirements

Science education majors must complete the Liberal Arts Core curriculum with these additional specific requirements:

- One approved history (HST) course (3 credits)
- One social science course (other than history (HST) or psychology (PSY)) (3 credits)
- One fine arts within Arts and Sciences (FIA) course (3 credits)

- One humanities course (other than history (HST) or fine arts (FIA) (3 credits)
- One multicultural humanities or social science course (3 credits)
- One approved calculus course (3 credits)

Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study.

Science Content

Science majors are required to complete a major of no less than 30 credits in an area chosen from biology, chemistry, geology (earth science), or physics.

In addition to, or as part of, the major, students must complete an introductory laboratory sequence in a second science area.

*The B.S. degree may be earned in the primary science area instead of the B.A. with the completion of additional science requirements, paperwork, and an appropriate petition.

** See specific departmental major course requirements for physics.

Selected Studies In Education

A Program For Cultural And Social Transformation

Contact: Richard Shin, 260 Huntington Hall, 315-443-9646; rqshin@syr.edu

Designed for Syracuse University students who are interested in education careers but not currently pursuing a teaching certificate, selected studies in education offers a path to a bachelor's degree through a program tailored to a student's individual interests and aspirations. Selected studies in education is for students planning to enter fields that contain strong educational components, including educational media, international education, counseling, instructional design, development, and evaluation, higher education, child advocacy and youth programming, education and family law, museum studies, disability studies, corporate settings, and related fields.

Program Requirements:

Students must complete the following requirements, including at least 42 credits at the upper-division level:

- 30 credits in education (including a minimum of 18 credits in one of the four selected studies individual focus areas, outlined below)
- a minor or major in a liberal arts field related to the course of study;
- liberal arts distribution requirements (the liberal arts major or minor plus distribution requirements and liberal arts electives must total at least 60 credits.);
- at least 6 credits in a language other than English (all students are required to take at least two semesters of language other than English while at Syracuse, even if they have previously developed competence in another language through high school preparation or by some other means);
- one semester of study abroad or an intensive semester experience in Syracuse or another part of the U.S. that would broaden the student's experience with diversity in a distinct way;
- at least 6 credits in research methods (this requirement can be satisfied with courses taken as part of the required 30 credits in education);
- an internship or several intensive experience projects that allow the student opportunities to apply and enhance skills learned in the program (minimum of 6 credits).

A 2.8 grade point average is required for admission to this program and to remain in good academic standing in the program.

CORE IN EDUCATION

Students are required to complete the following core courses in education (15 credits):

- EDU 200 Education for Cultural and Social Transformation (3 credits)
- EDU 310 American School (3 credits)
- EDU 300 International Education for Cultural and Social Transformation (3 credits)
- CFE 444 Schooling and Diversity (3 credits)
- EDU 400 Research and Theory in Education for Cultural and Social Transformation (3 credits)

LIBERAL ARTS DISTRIBUTION REQUIREMENTS

All students in the Selected Studies in Education program are advised to complete a set of liberal arts requirements. These are:

- Two mathematics courses (6 credits)
- Two science w/lab courses (8 credits)
- Three writing courses (WRT 105, 205, and 307) (9 credits)
- Two foreign language courses (6-8 credits)
- One history course (3 credits)
- One multicultural social science course (3 credits)
- One multicultural humanities course (3 credits)
- Eight liberal arts (Arts and Sciences) electives (24 credits)

LIBERAL ARTS MAJORS OR MINORS

Students are advised to complete a full major or an approved concentration in a liberal arts field as part of their program in selected studies in education. A complete list of available majors, minors and concentrations can be found in the Undergraduate Course Catalog; students may develop their own individualized multidisciplinary majors with the assistance of their advisor and permission of liberal arts departments in the College of Arts and Sciences.

INDIVIDUAL FOCUS AREAS IN EDUCATION

Students must choose at least 18 credits of coursework from approved courses in education based on their thematic or career focus. Students satisfy this requirement by taking courses listed in any of the focus areas below. Students may make substitutions with the approval of their advisors. The four focus areas to choose from are:

Cultural Foundations Of American Schooling: Schooling And Diversity

This focus is suitable for students who may want to pursue any of the following career interests: seek a teaching career at a future point; work with youth in non-school settings; enter the educational media field; or work in public policy settings that focus on public schooling. Students interested in this focus area might also want to choose courses from the pre-teaching focus or the education, technology, and media focus.

Pre-Teaching: Study Of Teaching, Learning, And Inclusion

This focus is suitable for students who may wish to pursue a career in teaching after completing their undergraduate program. Courses in this focus area may include the study of early childhood, elementary, or secondary education, as well as issues of diversity, disability, regular education, special education, and inclusion within schools. Students in this focus area will have significant experiences in public schools during the course of study. Students interested in pre-teaching may want to consider taking relevant courses from other focus areas.

Education, Technology, And Media

This focus is ideal for students who have an interest in the integration of media and technology in various learning contexts. Students learn media literacy skills and gain an understanding of how popular culture influences the promotion and transmission of cultural values within our society. Students interested in this focus may want to consider taking relevant courses in the cultural foundations of American schooling focus.

Post-Secondary And Human Services Fields

This focus is suitable for students wishing to work in a variety of educational settings, including the workplace, higher education, international education, and as non-teaching personnel in primary and secondary schools. Whether students are interested in pursuing a graduate degree in a human services field or in seeking employment immediately after undergraduate studies, this focus area will provide an introduction to the general study and provision of human and social services to individuals, families, and communities in public and private human service agencies and organizations. The focus provides a strong foundation for graduate work in such fields as counseling, social work, marriage and family therapy, psychology, and higher education. ***This focus also has the "fast-track" option for students to begin graduate study toward an Master of Science degree in counseling during their senior year at SU. See description below.

Fast Track To Professional Counseling

This track is designed for highly motivated and focused students interested in pursuing a master's degree in counseling upon completion of their undergraduate degree in Selected Studies in Education, following the 'post-secondary and human services fields' track. Students work closely with their advisor to develop a plan of study that will allow them to complete the majority of their undergraduate degree requirements for the Selected Studies in Education program prior to their senior year.

Students in this track who maintain at least a 3.0 GPA, and take the GRE, are eligible to apply for one of the following master's degree programs during their junior year:

- Clinical Mental Health Counseling
- School Counseling
- Student Affairs Counseling

Admitted students, with advisor approval, will be able to take up to 18 graduate credits toward their master's degree during their senior year. Admitted students will matriculate into the master's degree program the semester following completion of their undergraduate degree.

One of the primary benefits of this track is that students save time and tuition costs in two ways:

- 1) The ability to apply their undergraduate financial aid package toward graduate credits during their senior year.
- 2) Eligible to receive the 33% Graduate Student Tuition Scholarship for the remainder of their full-time master's program.

Benefits include saving time and the cost of graduate tuition. Students save time by accruing graduate credits during their senior year; they save additional money because they are also eligible to receive the 33% Graduate Student Tuition Scholarship for the remainder of their full-time master's program.

Social Studies Education

Arts And Sciences/Education (Dual)

Arts and Sciences contact: Ann Marie McGinnis, Director, Student Records Office, 329 Hall of Languages, mcginnis@syr.edu or 315-443-2205.

Education contacts: Pam Hachey (pkhachey@syr.edu) or Carol Radin (cvsradin@syr.edu), Assistant Directors of Academic Advising, Office of Academic and Student Services, 270 Huntington Hall, 315-443-9319

In order to graduate with eligibility to apply for New York State teacher certification in the secondary (7-12) academic areas of English, mathematics, science, or social studies, dual enrollment with the School of Education is required. Completion of all College of Arts and Sciences requirements (including the Liberal Arts Core with courses from specific categories and a major in one of the listed content areas) combined with 36 credits of education courses (including methods and student teaching) for a total of 123-126 credits are required. In addition, completion of New York State testing and other certification requirements apply. Please see the following detailed information.

The dual programs for prospective teachers provide a broad general education (the Liberal Arts Core of the College of Arts and Sciences), depth in the content area to be taught, and professional coursework and field experiences focusing on the skills and knowledge necessary to teach students from diverse backgrounds and with varying abilities. The programs available are listed below. A minimum of 123-126 credits are required. Some students may need to complete total program credits that are slightly greater than 126.

Students in the dual programs complete a program of study offered jointly by the College of Arts and Sciences and the School of Education: English education; mathematics education; science education (biology, chemistry, earth science, or physics); or social studies education. Students also complete the requirements for a College of Arts and Sciences major in the subject area.

Within the Liberal Arts Core, major, and/or electives, students must include one course from the following:

- mathematics (MAT 112 may not meet this requirement) (3 credits)
- history (3 credits)
- social science course other than history or psychology (3 credits)
- arts and culture/fine arts (3 credits)
- humanities course other than FIA or HST (3 credits)
- approved humanities or social science course with non-Western content (list is available from the education advisor) (3 credits)

When planning their subject areas, students should keep in mind that at least 9 credits of education are required in the spring of the junior year in order to meet the prerequisites for the fall student teaching experience. As many content (subject area) courses as possible should be completed by the end of the junior year. Other electives and remaining Liberal Arts Core courses can be delayed until the spring of the senior year.

All programs meet the academic requirements for New York State initial adolescent certification to teach grades 7-12 in the specified subject. Successful completion of certification examinations is also required for New York State teacher certification.

A core of professional requirements shared by all of these is as follows. Additional liberal arts, professional, and other requirements are described in the specific program sections below. More detailed information is available from the program coordinator.

PROFESSIONAL EDUCATION CORE (INCLUDING REQUIREMENTS OTHER THAN COURSES)

The professional sequence includes coursework, field experience and student teaching, and requirements other than coursework, described below.

The Professional Core Requires:

- EDU 204 Principles of Teaching and Learning in Inclusive Classrooms* (4 credits)
- EDU 304 Study of Teaching* (4 credits)
- EDU 310 American School* (3 credits)
- RED 326 Literacy Across the Curriculum* (4 credits)

Workshops:

Identifying/Reporting Child Abuse; Violence Prevention; Child Abduction Prevention; Highway Safety; Alcohol/Drug/Tobacco Prevention; Fire and Arson Prevention.

* EDU 304 and RED 326 should be taken after EDU 204, no later than the first semester of junior year. EDU 204 may be taken as early as the second semester of first year. EDU 310 may be taken before, during, or after professional semesters.

The semesters of registration listed are for students completing the program in four years. Others would adjust accordingly, with the candidacy and second professional semester as late in the program as possible.

Candidacy Semester

(spring of the junior year)

Prerequisites: Enrollment in the specific program; development of an acceptable professional portfolio (reviewed during the fall prior to the candidacy semester); a minimum 2.8 cumulative average, and 2.8 (3.0 for English education) in both required education and in content (subject matter) courses; completion of EDU 204 and 304, RED 326, and the number of content courses required by the program; and appropriate progress toward meeting all of the program assessment proficiencies and dispositions.

Note: SU Abroad study planned for the junior year would need to take place in the fall semester.

- SED 413 or SCE 413 Methods and Curriculum in Teaching (in specific subject area) (3 credits)
- SED 409 Adapting Instruction for Diverse Student Needs (3 credits)
- EDU 508 Student Teaching/Secondary Candidacy (including during SU's spring break) (3 credits)

Standard Student Teaching Semester

(fall of the senior year)

Prerequisites: Successful completion of the candidacy semester and an acceptable professional portfolio; completion of the required amount of credits in the content area; grade point averages at or above the minimums stated above; successful review of all appropriate student assessment proficiencies and

dispositions.

EDU 508 Student Teaching (9 credits)
SED 415 Teacher Development (3 credits)

Because this student teaching placement is a full-time, 10-week experience, no other daytime courses can be taken, and it is not advisable to plan more than 12 total credits in this semester, unless approved by an advisor.

Admissions

A minimum of a 2.8 grade point average is required for admission to these Arts and Sciences and Education dual enrollment programs. GPA requirements for admission to the candidacy and standard student teaching semesters, and other prerequisites to these semesters are mentioned above. Additional requirements may apply to some programs.

Intra-University transfer to the School of Education is coordinated through the Office of Academic and Student Services, 270 Huntington Hall. Upon acceptance into a dual program, the student should also complete the official program of study form required by the College of Arts and Sciences. Students may not declare a major in an Arts and Sciences/Education program until they are accepted by the School of Education. Application should be made as soon as possible, but must be made no later than the start of the fall of the junior year by those hoping to complete the program in four years (although even then extra semesters may be necessary).

Advising And Special Services

A dually enrolled student has an advisor in each college or one advisor dually appointed to both colleges. Early contact with the education advisor is important for progress and careful planning. Contact is also required before each registration in order to have the School of Education advising hold lifted.

Students planning graduation from these programs are expected to ensure a senior check has been completed with the School of Education, in addition to similar monitoring by the College of Arts and Sciences. They also may take advantage of the job search services of the Education Career Services Office, 270 Huntington Hall.

Social Studies Education

Contact: Jeffery Mangram, 150 Huntington Hall, 315-443-2685 or jamangra@syr.edu

In addition to the professional education requirements, students in social studies education complete the Bachelor of Arts in a social science subject area and the following requirements:

Core Requirements

Social studies education majors must complete the Liberal Arts Core curriculum with these additional specific requirements:

One mathematics course-Statistics (MAT 121 or 122) is recommended (can also meet one of the program's research requirements) (3 credits)
One fine arts within Arts and Sciences (FIA) course (3 credits)
One humanities course (other than history (HST) or fine arts (FIA)) (3 credits)

Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study.

Social Studies Content

* Social studies majors are required to complete a major in an area chosen from African American studies, American studies, anthropology, economics, geography, history, international relations, political science, policy studies, or sociology. If African American Studies or American Studies is chosen, all courses other than required humanities courses must be social science classes.

If history is not the chosen major, the following 18 credits of history must also be completed:

HST 101 American History to 1865 (3 credits)
HST 102 American History Since 1865 (3 credits)
HST 111 Early Modern Europe, 1350-1815 (3 credits)
HST 112 Modern Europe: Napoleon to the Present (3 credits)
One nonwestern history course (3 credits)
One upper-division history (300-level or above) by advisement (3 credits)

All majors must complete a course in economics (ECN), political science (PSC), and geography (GEO) from the social science list.

All majors must complete SED 522 Study of Social Studies.

* See specific departmental major course requirements for your chosen content major.

Courses

Art Education

AED 215 Foundations Art Education 3 S
History and philosophy of art education and the growth of American education. Principles and practices of teaching visual arts from prekindergarten through adult education. Relationships among schools and cultural resources.

AED 470 Experience Credit 1-6 S
Participation in a discipline- or subject-related experience. Student must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

AED 510 Special Problems in Art Ed 1-6 S
Individual study of particular problems in art education which are of pertinence to the student. Counseling and consent of the instructor determine the area of study.

AED 521 Art-Centered Art Curric'M 3 IR
Ten approaches to writing art curricula: referential, chronological, stylistic, topical, special interest, specific artist, collection-related, integrating, multidisciplinary, enrichment. Development of classroom material for specific levels or particular audiences. For senior and graduate art majors.

AED 522 Art for Special Populations 3 IR
Effective personal communication through art. Choose and define a special population; expmine and generate appropriate research; develop adaptive strategies, curriculum, and evaluation procedures appropriate for classroom use. For senior and graduate art majors.

AED 524 Visual Language 3 IR
Visual language as catalyst for interdisciplinary experiences in art, math, science, and social studies. Visualization, determination of essential features, methods of teaching surrogate and relational form. Curriculum for specific grades or particular audiences. For senior and graduate art majors.

AED 525 Exploration & Meaning in Art 3 IR
Using phenomenological encounter techniques, symbol interpretation, and consideration of cultural context, students learn to argue a point of view and develop methods of critical judgment in their students. For senior and graduate art majors

College Learning Strategies

CLS 105 College Learning Strategies 3 S
Study and application of learning strategies in the context of lectures, reading, recitations and independent learning situations.

Counseling

COU 101 Developmental Issues of College Age Adults 3 S
Issues of college students such as time management, identity development, intimacy, sexuality, alcohol and drug use, conflict management, interpersonal communications, dealing with diversity, choosing a major and a career.

COU 575 Orientation to Substances of Abuse 3 SS

Crosslisted with: RCE 520
Common substances of abuse. Origin, distribution and sale, use, methods of ingestion, effects, legitimate uses, and other features. Foundation course for other curricular offerings in substance-abuse counseling.

COU 585 General Counseling Methods 3 Y

For non-majors, introduces students to fundamental components of the practice of counseling for application in a variety of professional settings. This course cannot be used to waive a required course for a master's program in Counseling and Human Services.

Cultural Foundations Of Education

CFE 221 Social History of American Education (Honors) 3 IR

Crosslisted with: HST 221
History of educational goals, methods, and institutions throughout changes in population, economy, and social order. Social and economic consequences of Americans' educational choices. Part of liberal arts cluster for lower-division honors students.

CFE 300 Selected Topics 1-3

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

CFE 362 Youth, Schooling and Popular Culture 3 Y

Crosslisted with: DSP 362, WGS 362; Double Numbered with: CFE 662
Positioned where school, media, and youth cultures intersect. How schools and media represent "good" and "bad" youth, and how youth negotiate schools and popular cultures. Includes theories of popular culture and adolescence.

CFE 400 Selected Topics 1-3

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

CFE 444 Schooling & Diversity 3 S

Crosslisted with: WGS 444
Construction of diversity (race, ethnicity, gender, nationality, class, disability, sexual orientation) in schools. Emergence of inequalities based on difference in pedagogy and curriculum. Student resistance in relation to cultural diversity. Teaching for empowerment.

Dance Technique Studies

DTS 228 Basic Social Ballroom Dance 1 S
Basic skills of social dance, including the fox-trot, cha-cha, waltz, swing, rumba, polka., and novelty dances. Also introduction tango, merengue, and samba. Enroll as an individual or with partner. No experience necessary.

DTS 229 Intermediate Social Ballroom Dance 1-2 S

Ideal for anyone with previous ballroom dance experience or in any form of dance. Emphasis on styling and upper level dance patterns.

DTS 231 Introduction to Dance 1 Y

Fundamental skills involved in jazz, modern, ballet, and aerobic dance.

DTS 233 African Dance 1 Y

Dance styles and rhythms from Africa and the Caribbean. Emphasizes folkloric dance of these regions. No dance experience necessary.

DTS 234 Tap 1 S

Combines beginner and intermediate levels. Tap-dance stylizations, musical and rhythmic qualities through various tap techniques.

DTS 235 Beginning Jazz I 1-2 Y

Basic vocabulary of jazz dance. Emphasizes strength, technique, coordination, musicality, and appreciation of the art form. No dance experience necessary.

DTS 236 Beginning Jazz II 1-2 Y

Continuation of DTS 235. Emphasizes technical development, musicality, and longer combinations.
PREREQ: DTS 235.

DTS 237 Intermediate Jazz I 1-2 Y

For students with training in jazz. Emphasizes mastering techniques and developing personal style.
PREREQ: DTS 236.

DTS 238 Intermediate Jazz II 1-2 Y

Continuation of DTS 237. Challenging warm-ups, combinations, and repertory.
PREREQ: DTS 237.

DTS 239 Beginning Ballet I 1-2 Y

Develops basic understanding of ballet. Develops skills in alignment, technique, and movement. No dance experience necessary.

DTS 241 Beginning Ballet II 1-2 Y

Continuation of DTS 239. Further development of technical phrases, positions, center work, and ballet vocabulary.
PREREQ: DTS 239.

DTS 242 Intermediate Ballet I 1-2 Y

For students with previous ballet training. Challenging center work, introduction of developed technical phrases, and repertory.
PREREQ: DTS 241.

DTS 243 Intermediate Ballet II 1-2 Y

Continuation of DTS 242. Emphasizes developing complexity in precision, strength, alignment, and performance skills.
PREREQ: DTS 242.

DTS 244 Beginning Modern I 1-2 Y

Continuation of DTS 244. Emphasizes technical development and proper alignment.

DTS 245 Beginning Modern II 1-2 IR

PREREQ: DTS 244.

DTS 246 Intermediate Modern I 1-2 Y
For students with previous training in modern dance. Emphasizes technique or style developed by Graham, Horton, Humphrey, or Limon.

DTS 247 Intermediate Modern II 1-2 IR
Continuation of DTS 246. Students continue to master and refine technique, lengthy combination skills, and repertory.
PREREQ: DTS 246.

DTS 300 Selected Topics 1-3 Y
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

Disability Studies

DSP 200 Selected Topics 1-3 IR
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

DSP 357 Deafness and Disability 3 SS
Crosslisted with: SPE 357
Examines the relationship between deaf and disability studies and explores deafness as both a social construction and an identity.

DSP 362 Youth, Schooling and Popular Culture 3 Y
Crosslisted with: CFE 362, WGS 362; Double Numbered with: DSP 662
Positioned where school, media, and youth cultures intersect. How schools and media represent "good" and "bad" youth, and how youth negotiate schools and popular cultures. Includes theories of popular culture and adolescence.

DSP 424 Representations of Ability & Disability 3 E
Crosslisted with: SOC 424
Representations of disability in autobiographical accounts and professional narratives, and implications of these representations for educational practice and policy.

DSP 432 Gender and Disability 3 Y
Crosslisted with: SOC 432, WGS 432
This course will investigate the intersection of gender and disability and how it impacts such issues as representation/self-representation, art and poetry, illness, education, sexuality, reproduction and motherhood, and caring work.

DSP 438 Disability and Popular Culture 3 Y
Crosslisted with: SOC 438
Explore representations of disability through the analysis of books, movies, television, cartoons, and journalism. It will examine how disability is portrayed by people with and without disabilities, and discuss influences on public perceptions of disability.

DSP 440 Sociology of Disability 3 Y
Crosslisted with: SOC 440
A theoretical understanding of disability through the lens of sociology and that of disability studies and demonstrates how cultural institutions shape conceptions of disability in society.

DSP 475 Internship in Disability Policy 3 Y
Practical experience in examining how public policy affects the lives of people with disabilities. Open to students admitted to the Disability Studies minor who have completed at least two Disability Studies courses.

DSP 500 Selected Topics 1-3 IR
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

Education (General)

EDU 101 First Year Forum 1 Y
An introduction to the School of Education and Syracuse University. Designed to assist student with a successful transition to college.

EDU 200 Selected Topics 1-3
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. * R

EDU 201 Practicum in Pre-K Inclusive Education 1 S
Observation and engagement with children in preschool settings serving nondisabled children and children with Autism Spectrum Disorder and/or other developmental disabilities. Provides opportunities to observe practices discussed in EDU 203 classes and readings.
PREREQ OR COREQ: EDU 203.

EDU 203 Study of Elementary and Special Education Teaching 3 S
Techniques of inquiry into classroom and school practices. Topics, issues, values related to inclusive education. Application of observation skills in field or laboratory settings. Students may not receive credit for EDU 203 and the following: EDU 207, SPE 204, SPE 210, EDU 605.

EDU 204 Principles of Learning in Inclusive Classrooms 3-4 S
Understanding learning, learner similarities and differences in diverse populations; schools and classrooms as complex learning settings; teacher decision-making based on classroom observations, student assessment, theory, and situation analysis. No more than one of EDU 204, 303, or 307 may be taken for credit.

EDU 270 Experience Credit 1-6 SI
Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

EDU 290 Independent Study 1-6 IR
In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

EDU 300 Selected Topics 1-3 IR
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

EDU 301 Methods and Practice in Teaching Art 3 Y
Double Numbered with: EDU 601
Learning and teaching styles, instructional techniques, classroom and behavior management; development of independent thinking, making relevant judgments, effective communication through visual language. Includes teaching art workshops for young people.

EDU 302 Methods and Curriculum in Teaching Art 3 Y
Double Numbered with: EDU 602
Teaching strategies; planning lessons, units, and curricula for various age levels, special populations. Multicultural and interdisciplinary perspectives; assessment techniques; values and ethics; educational policy. Includes teaching art workshops for young people. For students in the art education program only.

EDU 303 Teaching and Learning for Inclusive Schooling 3 S
Principles of instruction for inclusive schooling based upon theory and research in children's learning. Emphasizing education for diverse student needs in elementary schools. Includes field placement. May not receive credit for both EDU 303 and EDU 307/ 607.

EDU 304 Study of Teaching 3-4 S
Teaching in secondary schools and in special subject areas. Observing and analyzing teacher and student behavior, exploring what others expect of teachers and they of each other. Minimum 25-hour field placement. No more than one of EDU 203, 304, or 605 or EED 606 may be taken for credit.
PREREQ: EDU 204.

EDU 310 The American School 3 S
Double Numbered with: EDU 610
Issues that impinge on teachers, teaching, and schools in today's society. May not be repeated for credit.

EDU 315 Adult Literacy Education: Principles and Practicum 3 S
Methods of teaching adult literacy and discussion of broader, literacy-related social issues. Students tutor in local programs. Students must be able to schedule six hours each week for tutoring.

EDU 400 Selected Topics 1-3
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

EDU 421 Behavior Techniques in Music Education 3 Y

Double Numbered with: EDU 621
Behavior techniques in classroom and rehearsal situations. Development of music task-analysis skills and reinforcement techniques. Learning goals in music for children of different ages and abilities.

EDU 431 Art in the Classroom 1 S

Workshop experience with art as it relates to the various academic areas and other arts. For education majors without an art background. Promotes effective working relationship between classroom teacher and arts specialists.

EDU 432 Music in the Classroom 1 S

Introduction for non-music majors to skills/resources necessary to teach music to children. Assists the classroom teacher in the use of music and the music specialist in school setting.

EDU 433 Speech and Drama in the Classroom 1 S

Introduction to rhetorical and dramatic skills. Basic principles, critical and creative processes, and adaptive action. Students experience positions of reporter interpreter, advocate actor, and discussant oral reader.

EDU 434 Creative Movement for the Classroom 1 S

Use of movement exploration as integral to the learning process; implementation of movement elements into curriculum; appreciation for and understanding of the child's basic need to move and to learn through movement is stressed.

EDU 470 Experience Credit 1-6

Participation in a discipline or subject related experience. Student must be evaluated by written or oral reports or an examination. Permission in advance with the consent of the department chairperson, instructor, and dean. Limited to those in good academic standing. R

EDU 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

EDU 499 Thesis Honors in Educ 0-6 S

EDU 500 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

EDU 508 Student Teaching 2-15 S

Supervised teaching experience in pre-kindergarten through twelfth grade settings, with required seminars and conferences. Matriculated teacher preparation students only. Repeated as program requires. Variable length experiences earn V-grade until complete, leading to P or F grade. Prerequisites and credits vary by program. Offerings may vary each semester. R

EDU 535 Quality Infant Care Giving 2-3 SS

Crosslisted with: CFS 535
Workshop. Research theories and demonstrations of infant/toddler care, development, and assessment; group care, legal and budgeting issues, and work with parents.

Elementary Education

EED 300 Selected Topics: Elementary Education 1-3

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

EED 314 Teaching Strategies for Inclusive Education 3 S

Creating cooperative, inclusive classroom communities with a focus on community building, classroom climate, interactive large and small group teaching strategies and positive responses to classroom and family diversity. Implementation during field experience. Effective spring 2009

EED 323 Primary Grade Mathematics Methods and Curriculum 3 S

Integration of theory, research, and practice in teaching and learning of mathematics in grades 1-3. Examination of programs' scope, sequence, and materials. Designing, teaching and assessing inclusive lessons and units, including differentiated instruction and adaptations. Admission to block II is required. Effective fall 2009.

COREQ: EED 328, 336, 362; SPE 324.

EED 325 Primary Grade Literacy Methods and Curriculum 3 S

Methods and curriculum for literacy instruction in grades 1-3, including reading, writing, speaking, and listening. Lesson planning for children with diverse needs and dis/abilities. Effective spring 2009

COREQ: EED 314 AND EED 361.

EED 328 Block II Field Experience 3 S

Six week, 4.5 days per week classroom experience in grades 1-3. Student must be admitted to Block II.

COREQ: EED 323, 336, 362; SPE 324.

EED 336 Elementary Social Studies Methods and Curriculum 3 S

Double Numbered with: EED 626
Formulation and teaching of thematic unit plans to children with and without disabilities. Incorporates children's multicultural literature, inquiry-based curriculum materials, primary source documents, and activity-based instruction. Decisions based on concepts and values.

COREQ: EED 323, 328, 362, SPE 324.

EED 337 Elementary Science Methods and Curriculum 3 S

Double Numbered with: EED 627
Formulation and teaching of unit plans to children with and without handicaps. Decisions based on concepts and thinking skills. Reviews of curriculum materials and student-centered activities. Fostering inquiry.

COREQ: EED 363, 423, 425, 438.

EED 340 Participation in the Professional Development School 0-1 IR

Crosslisted with: SED 340; Double Numbered with: EED 640

Individual involvement in research, discussion and decision making with teachers, university faculty, and colleagues who are members of the Professional Development School Cadres and Academies. Permission of instructor. R5, 2 credits maximum

EED 361 Block I Field Experience and Seminar 3 S

Seminar for students to critically reflect upon their field experiences. Professionalism, collaborative problem solving (including classroom management), and understanding and positively contributing to the school community. Six week, 2.5 hours per day classroom experience (grades 1-3). Must have been admitted to first professional block. COREQ: EED 314, 325.

EED 362 Block II Field Seminar 1 S

Opportunities for students to critically reflect upon and understand their field experiences. Emphasis on professionalism, collaborative problem solving (including classroom management) and becoming a productive school change agent.. Student must be admitted to Block II.

COREQ: EED 323, 328, 336; SPE 324.

EED 363 Block III Field Seminar 1 S

Opportunities for students to critically reflect upon and understand their field experiences. Emphasis on professionalism, collaborative problem solving (including classroom management) and becoming a productive school change agent. Admission to Block III is required.

COREQ: EED 337, 438, 423, 425 AND SPE 434.

EED 423 Intermediate Grade Mathematics Methods and Curriculum 3 S

Integration of theory, research, and practice in teaching and learning of mathematics in grades 4-6. Examination of programs' scope, sequence, and materials. Designing, teaching and assessing inclusive lessons and units, including differentiated instruction and adaptations. Admission to Block II is required.

COREQ: EED 337, 363, 425, 438; SPE 434.

EED 425 Intermediate Grade Literacy Methods and Curriculum 3 S

Methods and curriculum for literacy instruction in grades 4-6, including reading, writing, speaking, and listening. Lesson and unit planning for children with diverse needs and dis/abilities. Student must be admitted to Block III.

PREREQ: EED 325; COREQ: EED 337, 363, 423, 438; SPE 434.

EED 432 Teaching Number Ideas, K-6 3 SI
Crosslisted with: MTD 432; Double Numbered with: EED 632
Numeration, operations, number theory, and rational number concepts and processes as foundational components of the elementary mathematics curriculum. Development of instructional methods and curriculum. Research on learning and teaching mathematics. Additional work required of graduate students.

EED 433 Teaching Geometry and Measurement, K-6 3 SI
Crosslisted with: MTD 433; Double Numbered with: EED 633
Geometry and measurement concepts and processes as foundational components of the elementary mathematics curriculum. Development of instructional methods and curriculum. Additional work required of graduate students.

EED 438 Block III Field Experience 3 S
Six week, 4.5 days per week classroom experience in grades 4-6.
COREQ: EED 423, 425, 337, 363; SPE 434.

EED 547 Childrens Literature 3 Y
History of literature for children; selection of books for children of different age groups. Methods of stimulating interest in literature. Use of literature as part of reading program.

Health And Physical Education

HEA 332 Personal Health and Safety 3 S
Contemporary health issues including human sexuality, stress management, substance abuse, exercise, and nutrition.

HEA 335 First Aid 1 S
Standard first aid instruction leading to certification.

HEA 336 Cardiopulmonary Rescue 1 S
Basic life support for cardiac arrest victims: skill training in artificial compression of the heart, artificial ventilation of the lungs.

HEA 470 Experience Credit 1-6 SI
Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

HEA 485 Worksite Health Promotion 3 Y
Double Numbered with: HEA 685
Principles and applications of health promotion in the workplace.

Instructional Design, Development, And Evaluation

IDE 200 Selected Topics 1-3
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

IDE 300 Selected Topics: Instructional Design, Development & Evaluation 1-3
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

IDE 400 Selected Topics: Instructional Design, Development & Evaluation 1-3 IR
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

IDE 456 Computers as Critical Thinking Tools 3 Y
Double Numbered with: IDE 656
Integrating computer technology applications into instruction to promote critical thinking in learners. Multiple software tools are explored and instructional applications developed. Additional work required of graduate students. Permission of instructor for graduates and undergraduates without prerequisites.

IDE 552 Digital Media Production 3 S
Use multimedia computers to create interactive presentations and web pages. Includes introduction and instruction on current state of the art tools, including graphics, video editing, and internet web design.

Mathematics Education

MTD 330 Undergraduate Research in Mathematics Education 1-3 SI
Undergraduate students work with faculty members in mathematics education on research related to the learning and teaching of mathematics. Formulating questions, designing research, collecting and analyzing data. R

MTD 432 Teaching Number Ideas, K-6 3 SI
Crosslisted with: EED 432; Double Numbered with: MTD 632
Numeration, operations, number theory, and rational number concepts and processes as foundational components of the elementary mathematics curriculum. Development of instructional methods and curriculum. Research on learning and teaching mathematics. Additional work required of graduate students.

MTD 433 Teaching Geometry and Measurement, K-6 3 SI
Crosslisted with: EED 433; Double Numbered with: MTD 633
Geometry and measurement concepts and processes as foundational components of the elementary mathematics curriculum. Development of instructional methods and curriculum. Additional work required of graduate students.

MTD 434 Teaching and Learning Functions 3 E
Crosslisted with: SED 434; Double Numbered with: MTD 634
Functions as an organizing theme for mathematics education, 5-14. Theoretical development of the function concept and multiple representations. Applications throughout algebra with applications to geometry and probability. Use of software and data collection equipment. Additional work required of graduate students.

MTD 437 Teaching and Learning Geometry 3 O
Crosslisted with: SED 437; Double Numbered with: MTD 637
Geometric thinking as an organizing theme for mathematics education, 5-14. Theoretical development of geometric concepts and notion of proof. Applications and connections of geometry throughout the curriculum. Use of geometry software. Additional work required of graduate students.

Music Education

MUE 115 Technology in Music Education 2
Examines technology in music education. Computer hardware and software for notation, sequencing, multimedia, computer-assisted instruction, database, and sound editing are discussed. Provides practical understanding of music instrument digital interface, audio, video, Internet navigation, and web page design.

MUE 215 Foundations of Music Education 3 Y
Philosophy of music teaching. Professional activities and organizations. Current trends. Career opportunities. Personal/professional competency of model teachers. Analysis of prospective teacher's personal/professional goals and competency.

MUE 310 Field Experience in Music Education 1-2 S
Double Numbered with: MUE 610
Orientation to school settings: organization, services, guidance, goals, evaluation. Observations and supervised teaching experiences in music at elementary/secondary levels. Experiences coordinated with music education courses in sophomore/junior years and graduate teacher preparation program. Additional work required of graduate students. R1, 2 credits maximum

MUE 321 Teaching of Voice for Schools 1-2 Y
Double Numbered with: MUE 621
Laboratory in teaching voice, emphasizing performance techniques, care of vocal instrument, acoustical considerations, elementary ensemble performance, and practical demonstration of methods and materials for individual/group instruction. Upper-division status or permission of instructor.

MUE 325 Teaching of String Instruments 1-2 Y
Double Numbered with: MUE 625
Laboratory in string instruments, emphasizing performance techniques, care of instruments, acoustical considerations, elementary ensemble performance, and practical demonstrations of methods and materials for individual/group instruction. Upper-division status or permission of instructor.

MUE 326 Teaching of Brass Instruments 1-2 Y

Double Numbered with: MUE 626
Laboratory in brass instruments, emphasizing performance techniques, care of instruments, acoustical considerations, elementary ensemble performance, and practical demonstration of methods and materials for individual/group instruction. Upper-division status or permission of instructor. R1, 4 credits maximum

MUE 327 Teaching of Woodwind Instruments I 1-2 Y

Double Numbered with: MUE 627
Laboratory in flute, clarinet, and saxophone, emphasizing performance techniques, care of instruments, acoustical considerations, elementary ensemble performance, and practical demonstration of methods and materials for individual/group instruction. Upper-division status or permission of instructor.

MUE 328 Teaching of Woodwind Instruments II 1-2 Y

Double Numbered with: MUE 628
Laboratory in oboe and bassoon, emphasizing performance techniques, care of instruments, acoustical considerations, elementary ensemble performance, and practical demonstration of methods and materials for individual/group instruction. Upper-division status or permission of instructor.

MUE 333 Music in the Elementary School 1-2 Y

Double Numbered with: MUE 633
Methods and materials for elementary school music programs. Laboratory experience in teaching songs, rhythms, music listening, sight reading, and the use of visual aids. Orff and Kodaly methods. Open only to music education majors. Prereq: Upper-division status or permission of instructor.

MUE 334 Methods and Materials in General Music 1-2 Y

Double Numbered with: MUE 634
Methods and resources for grades 6-12 in nonperformance music classes. History, theory, general music. The changing voice. Upper-division status or permission of instructor.

MUE 415 Jazz Ensemble Techniques 2

Double Numbered with: MUE 617

MUE 416 Psychological and Sociological Aspects of Music 2-3 IR

Introduction to psychophysiological and sociophysiological processes involved in musical behavior. For non-music majors: permission of instructor.

MUE 423 Teaching of Percussion Instruments 1-2 Y

Double Numbered with: MUE 623
Laboratory in percussion instruments, emphasizing performance techniques, care of instruments, acoustical considerations, elementary ensemble performance, and practical demonstration of methods and materials for individual/group instruction. Upper-division status or permission of instructor.

MUE 431 Mngmt in Music Teaching 1-2 Y

Double Numbered with: MUE 731

MUE 435 Choral Rehearsal Techniques 2-3 Y

Double Numbered with: MUE 735
Principles and techniques of conducting and rehearsing choral groups. Music literature for typical choral group in schools.

MUE 437 Instrumental Rehearsal Techniques in Music Education 2-3 Y

Double Numbered with: MUE 737
Principles and techniques of conducting and rehearsing instrumental groups. Music literature for typical instrumental groups in schools.

MUE 510 Practicum in Children's Choir 1-3

Develop understanding, expertise, and practical experience working with a children's choir through score analysis, rehearsal observations, and conducting experiences. In-depth study of choral music appropriate for children's choirs of varying levels.

MUE 516 Technology in Music Education 3

Philosophical foundation for marching bands. Lecture/lab format promoting discussion and practical application of skills necessary to organize, administer, and implement the high school band program successfully.

MUE 518 Marching Band Techniques 2 Y

Philosophical foundation for marching bands. Lecture/lab format promoting discussion and practical application of skills necessary to organize, administer, and implement the high school band program successfully. Music education majors or permission of instructor.

MUE 520 Teaching of Classical Guitar 1-2

Laboratory in guitar, emphasizing performance techniques, care of instrument, acoustical considerations, elementary ensemble performance, and practical demonstration of methods and materials for individual/group instruction. Upper division status or permission of instructor. Music majors only.

Physical Education

PED 200 Selected Topics 1-3

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

PED 209 Adventure Activities I 1 Y

Adventure activities including: group games, initiatives and ropes course elements. Principles of trust, communication, cooperation, respect, and responsibility

PED 211 Beginning Swimming 1 S

For individuals with essentially no ability in and around the water. Develops basic swimming and survival skills at the individual's own pace.

PED 212 Intermediate Swimming 1 S

For individuals who already possess the ability to swim and have minimal fear of the water. Safety skills and stroke development.

PED 213 Advanced Swimming 1 S

Advanced techniques for stroke improvement and training. High-yardage workouts. PREREQ: PED 212.

PED 214 Snorkeling 1 S

Introduction to the underwater world. Use of mask, snorkel, and fins; other snorkeling skills. Individuals who take this class should be able to swim at an intermediate level. Course fee.

PED 216 Water Safety Instruction 2 Y

Theory and practice of teaching beginning, intermediate, and advanced swimming and diving. A specific section activity may not be repeated for credit. Red Cross certification available.

PED 217 Lifeguarding 1 Y

Designed to train individuals in all areas necessary to be considered a knowledgeable and capable lifeguard. Red Cross certification available.

PED 221 Scuba 1 S

Basic skills and knowledge, from use of equipment to the physiology of diving. Participants must be able to swim at an intermediate level. Certification available. Scuba fee.

PED 225 Advanced Scuba 1 S

For basic open-water scuba divers. Develops knowledge, mental attitude, and physical skills. Scuba fee. PREREQ: PED 221.

PED 240 Individual/Dual Sports 1 Y

This course covers most individual/dual sports. Emphasis is on how to teach them. Physical Education majors only. May not be repeated for credit.

PED 248 Improvisation 1 IR

Basic improvisation for use in choreography and improvisational settings. Develops spontaneity of movement.

PED 249 Body Works 1 IR

Exercises designed for the general population that stretch, strengthen, and condition the body. Provides information on minimizing injury.

PED 250 Team Sports 1 Y

Sections develop skill and knowledge in basketball, field hockey, soccer, softball, volleyball, etc.

PED 258 Rugby 1 Y

Develops skills and tactics, including ball possession, field position, kicking, and passing.

PED 259 Varsity Athletics 0-1 S

Varsity team members only. Sanctioned fall, winter, and spring intercollegiate sports. R7, 4 credits maximum

PED 261 Golf 1 S

Basic skills, rules, strategies, terminology, equipment, and safety practices. Range practice, course play, lectures, and videotaping.

PED 262 Gymnastics 1 S

Basic skills and understanding. Includes use of apparatus, tumbling, and basic movement skills.

PED 263 Self Defense for Women 1 S

Identifying factors that increase the risk of being assaulted, including physical surroundings, demeanor, clothes, etc. Strategies for reducing those risks discussed and practiced. Means of dealing with different levels of intensity of assaults without escalating violence. Physical defense techniques.

PED 264 Beginning Karate 1 S

Fundamentals, including flexibility and strength training, self-discipline, and confidence through practical applications. For men and women. No experience required.

PED 265 Intermediate Karate 1 S

Advanced instruction. Sparring and other upper-level material.
PREREQ: PED 264.

PED 266 Advanced Karate 1 Y

Upper-level training in martial arts.
PREREQ: PED 265.

PED 275 Beginning Tennis 1 S

Basic skills, techniques, and knowledge.

PED 276 Intermediate Tennis 1 S

Improves previously developed individual and team skills and strategies.

PED 277 Advanced Tennis 1 S

Game strategies and advanced skill development for those who wish to participate in high-level competition.

PED 278 Beginning Fencing 1 S

Develops basic skills and knowledge.

PED 281 Downhill Skiing 1 Y

Develops basic skills and knowledge appropriate to student's level of ability. A section on instructing skiing is available.

PED 282 Beginning Cross Country Skiing 1 IR

Basic skills and knowledge.

PED 286 Beginning Horseback Riding 1 S

Emphasizes dressage and the classical seat used in international competition. Develops horsemanship: saddling, bridling, grooming, riding position, and communications. Course fee.

PED 287 Intermediate Horseback Riding 1 S

Further development of skills: balance, contact with the horse's mouth, teaching the horse to bend and keep rhythm, and smoother transitions. Course fee.

PED 288 Advanced Horseback Riding 1 S

Promotes increased sensitivity between horse and rider. High-level horses are available for riders with appropriate skills. Course fee.

PED 289 Backpacking 1 S

Course study and practical field experience. Develops skills and knowledge to enhance enjoyment of the outdoors. No previous outdoor camping/hiking experience needed. Course fee.

PED 291 Individualized Fitness 1 S

Gives students the knowledge and ability to "get in shape." Developing exercise programs and performing fitness-related activities. Good preparation for all other fitness-related courses.

PED 292 Low Impact Aerobics 1 S

Develops total fitness of the body through cardiovascular training, muscle toning, strengthening, and stretching. Low to relatively high intensity level, with impact remaining low (one foot always on the ground).

PED 293 High Impact Aerobics 1 S

Develops total fitness of the body through cardiovascular training, muscle toning, strengthening, and stretching. High intensity level, incorporating a lot of jogging and jumping movements.

PED 294 Aerobic Dance 1 S

Develops total fitness of the body through cardiovascular training, muscle toning, strengthening, and stretching. Moderate intensity level. Incorporates both dance and fitness-related movements.

PED 295 Weight Training 1 S

Entry-level course emphasizing techniques and training concepts related to strength and endurance. Students use Nautilus and/or Universal Single- or Multiple-Station equipment.

PED 296 Advanced Weight Training 1 SI

Advanced course using weight training as conditioning, emphasizing free weights.
PREREQ: PED 295.

Professional Physical Education

PPE 177 Introduction to Health and Physical Education 3 Y

Introduction to the historical, philosophical, and sociological perspectives of school health education and physical education. National data, reform, and standards; and best practices in teaching.

PPE 200 Selected Topics 1-3

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

PPE 235 Teaching K-12 Health-Related Fitness 3 Y

Basic skills and methods for teaching health-related fitness activities in the K-12 population.
PREREQ: PPE 177.

PPE 295 Introduction to Exercise Science 3 Y

Topics in exercise science including exercise physiology, mechanics of human motion, motor behavior, sports psychology.

PPE 325 Introduction to Coaching 3 S

Theoretical and practical experience for coaching. Sport psychology, administrative and organizational issues. Coaching practicum or playing experience required.

PPE 326 Practicum in Coaching 2 S

Supervised coaching experience in various athletics. Periodic conferences and seminars. Participants must remain the entire season of the sport of their choice.
PREREQ: PPE 325.

PPE 381 Physical Education in the Elementary Schools 3 Y

Professional-preparation theory course for elementary physical education. Curriculum development, teaching methodology, perceptual motor programs, movement education, skill and knowledge assessment, and special elementary activities. Field application required.

PPE 383 Physical Education in the Secondary School 3 Y

Professional-preparation theory course for secondary physical education. Curriculum issues, teaching methodology, mainstreaming, cognitive- and psycho- motor-assessment techniques, management skills, and selected secondary physical-education programs. Peer teaching.

PPE 385 Motor Behavior Across the Lifespan 3 Y

Psychological and physiological processes that affect motor performance. Motor control, motor learning and motor development across the lifespan.

PPE 394 Assessment and Curriculum in Health and Physical Education 3 Y

Assessment as an integrated and seamless component of curricular planning and student learning in a variety of physical education and health education contexts.
PREREQ: PPE 177 AND PPE 381 OR PPE 383..

PPE 408 Analysis of Human Motion 3 Y

Structures and mechanical analysis of human movement as related to physical activity. Laboratory experience.

PPE 415 Physical Education Teacher Development 1 S

Analysis of physical education teaching behavior and decision making, teaching alternatives and effectiveness. Class management, professional issues, personal teaching strengths. Issues related to student teaching, methods, curriculum and career planning.
COREQ: EDU 508.

PPE 435 Introduction to Sports Psychology 3 Y

History, theories, and principles of sport behavior and personality; psychological skills and techniques for improving individual and team performance.

PPE 470 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

PPE 481 Adapted Physical Education 3 Y

Principles for developing strategies for programs to fulfill physical education and recreation needs and interests of individuals with physical, mental, or emotional disabilities. Field experience.

PPE 483 Scientific Principles of Conditioning 3-6 Y

Double Numbered with: PPE 683
Development of physical conditioning programs based on scientific principles.

PPE 486 Prevention and Care of Athletic Injuries 3 Y

Sports medicine: the prevention and care of athletic injuries. Equipment, nutrition, rehabilitation, first aid, follow-up care, taping, and use of protective padding.

PPE 490 Independent Study 1-6 SI

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and department. R

PPE 497 Physiology of Exercise 3 Y

Principles of physiology as applied to exercise. Laboratory experiences.
PREREQ: BIO 216, 217.

PPE 514 Exercise and Aging 3 IR

The influence of aging on physical performance and the consequences of exercise on the physiological processes associated with aging.
PREREQ: PPE 497.

PPE 515 Graded Exercise Testing and Interpretation 4 Y

The administration of standardized exercise tests for the evaluation of health and fitness status. Presentation of normal and abnormal physiological responses these tests. Lab includes administration of exercise tests and equipment use.
PREREQ: PPE 497.

PPE 516 Exercise Prescription: Health and Disease 3 IR

Exercise prescription for health and fitness in the apparently healthy and a variety of clinical populations.
PREREQ: PPE 497.

PPE 517 Pathophysiology 3 Y

Physiology of disease processes emphasizing metabolic, cardiovascular, and neuromuscular pathophysiology. Suggested for students pursuing careers in clinical exercise physiology.
PREREQ: BIO 216 AND BIO 217; PPE 497.

PPE 518 Cardiac Rehabilitation 3 IR

Exercise training and prescription for individuals with cardiovascular disease.
PREREQ: PPE 497.

Reading And Language Arts

RED 300 Selected Topics 1-3

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

RED 326 Literacy Across the Curriculum 3-4 S

Double Numbered with: RED 625
Language acquisition and literacy development for diverse learners. Instructional approaches, materials, and assessment techniques to foster reading, writing, speaking, and listening for thinking and communicating. Includes minimum 25-hour field placement. Adolescence and special subject preparation programs. Additional work required of graduate students.

Rehabilitation Counselor Education

RCE 520 Orientation to Substances of Abuse 3

Crosslisted with: COU 575
Common substances of abuse. Origin, distribution and sale, use, methods of ingestion, effects, legitimate uses, and other features. Foundation course for other curricular offerings in substance-abuse counseling.

Science Education

SCE 200 Selected Topics: Science Education 1-3

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

SCE 413 Methods and Curriculum in Teaching Science 3 Y

Double Numbered with: SCE 613
Planning lessons, developing broad units, planning curricula for science 7-12. Prereq: Admission to secondary candidacy semester.

Secondary Education

SED 340 Participation in the Professional Development School 0-1 S

Crosslisted with: EED 340; Double Numbered with: SED 640

Individual involvement in research, discussion and decision making with teachers, university faculty, and colleagues who are members of the Professional Development School Cadres and Academies. Permission of instructor. R5, 2 credits maximum

SED 409 Adapting Instruction for Diverse Student Needs 3 Y

Double Numbered with: SED 609
Methods and materials to ensure that diverse student needs are met in classrooms. Focus on individual differences in learning, behavior, physical abilities, and emotional characteristics. Other differences will also be considered (e.g., race, gender). Admission to a teacher preparation program.

SED 413 Methods and Curriculum in Teaching 3 Y

Double Numbered with: SED 613
Lesson planning, developing broad units, planning curricula for specific grade levels and content areas under the guidance of major advisors in each teaching field.
COREQ: SED 409/609.

SED 415 Teacher Development 3 Y

Double Numbered with: SED 615
Analysis of teaching behavior and decision making, teaching alternatives and effectiveness. Classroom management, professional issues, personal teaching strengths. Issues related to student teaching, methods and curriculum.
COREQ: EDU 508.

SED 434 Teaching and Learning Functions 3 E

Crosslisted with: MTD 434; Double Numbered with: SED 634
Functions as an organizing theme for mathematics education, 5-14. Theoretical development of the function concept and multiple representations. Applications throughout algebra with applications to geometry and probability. Use of software and data collection equipment. Additional work required of graduate students.

SED 437 Teaching and Learning Geometry 3 O

Crosslisted with: MTD 437; Double Numbered with: SED 637
Geometric thinking as an organizing theme for mathematics education, 5-14. Theoretical development of geometric concepts and notion of proof. Applications and connections of geometry throughout the curriculum. Use of geometry software. Additional work required of graduate students.

SED 522 Study of Social Studies 3 Y

Culmination of the social studies sequence. Development of the field, persistent issues involved in content, organization, teaching methods, and teacher preparation. Nature of content as it influences instructional decisions.

Special Education

SPE 311 Perspectives on Disabilities 3 S

Overview of learner characteristics and service delivery models for students with disabilities; selected issues in child protection; problem solving processes for inclusive schools and communities. Weekly field experience getting to know a child with a disability.

SPE 324 Differentiation for Inclusive Education 3 S

Strategies to support and promote the learning of all students (including those with disabilities and challenging behavior). Differentiation, adaptation, active learning techniques, inclusive lesson and unit planning, assessment and collaborative teaching. Implementation during field experience.

COREQ: EED 323, 328, 336, 362; PREQ: EED 314.

SPE 357 Deafness and Disability 3 SS

Crosslisted with: DSP 357

Examines the relationship between deaf and disability studies and explores deafness as both a social construction and an identity.

SPE 434 Collaborative Teaching for Inclusive Education 3 S

Inclusive instructional strategies for students with disabilities, with particular focus on students with autism. Collaborative teaching approaches, IEP implementation, positive behavior supports, fostering communication and adaptations to access enriching curricula. Implementation during field experience.

Effective Fall 2010

PREREQ: SPE 324; COREQ: EED 337, 363, 423, 425, 438.

SPE 500 Selected Topics 1-3

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

SPE 520 Methods and Curricula in Early Childhood Special Education 3 Y

Curricula, program design, and teaching methods for educating infants and young children with disabilities.

Faculty

Kal Alston, Professor

Ph.D., University of Chicago, 1989
Philosophy in education, gender and race;
popular culture

Barbara Applebaum, Associate Professor

Ph.D., Ontario Institute for Studies in
Education of the University of Toronto, 1994
Feminist ethics, feminist philosophy, and
critical race theory

Christine Ashby, Assistant Professor

Ph.D.
Ph.D. Syracuse University 2008 Inclusive
education, disability studies, autism and
communication.

Sandra Bargainnier, Assistant Professor

Ed.D.
Ed.D. Boston University 1995 Standards based
curriculum and assessment in health and
physical education

James Bellini, Associate Professor

Ph.D., University of Arkansas, 1995
Rehabilitation research, disability policy,
rehabilitation evaluation

Janine Bernard, Professor

Ph.D., Purdue University, 1975
Counselor education

Sharif Bey, Assistant Professor

Ph.D.
Ph.D. Pennsylvania State University 2007
Community based arts programing, African-
American art education history, unofficial
Slovak art, post soviet art education reforms,
conceptual art and its implications to art
education.

Douglas Biklen, Dean, Professor

Ph.D., Syracuse University, 1973
Child advocacy, public policy, facilitated
communication, inclusive education

Sari Biklen, A.A.U.W. Meredith Professor,
Chair

Ed.D., University of Massachusetts, 1973
Qualitative research methodology, gender,
race, and education, sociology of popular
culture, cultural studies

Benita Blachman, Trustee Professor of

Education and Psychology
Ph.D.
Ph.D. University of Connecticut 1981
Learning and reading disabilities; prevention
of reading difficulties; early reading
intervention; early language factors that
predict reading achievement.

John Briggs, Associate Professor Emeritus

Ph.D., University of Minnesota, 1972
History of education, social studies education,
rural education

Rachel Brown, Associate Professor

Ph.D., University of Maryland, 1994
Reading, strategy, instruction, cognition,
instructional technology

Tom Brutsaert, Associate Professor, Chair

Ph.D.
Ph.D. Cornell University 1997 Human
adaptation to high altitude, exercise at
altitude, fetal programming and effects on
muscle function and physical activity.

Diane Canino-Rispoli, Instructor

C.A.S.
Educational Leadership C.A.S. Syracuse
University M.S. Reading Education Syracuse
University B.S. State University College at
Buffalo Elementary Education Research
interests include instructional leadership as it
relates to supporting teacher effectiveness.

Julie Causton-Theoharis, Assistant

Professor
Ph.D., University of Wisconsin-Madison,
2003
Special education, differentiation, universal
design for instruction, professional
collaboration, paraprofessional support

Kelly Chandler-Olcott, Associate

Professor, Chair
Ph.D., University of Maine, 1998
Adolescent literacy and English methods

Myung Choi, Assistant Professor

Ph.D.
Ph.D. Ball State University 2006 Focus on
lipid metabolism both in adipos tissue and
skeletal muscle tissue in humans. Currently
interested in the effects of nitric oxide(NO),
eNOS, and iNOS on lipolysis using micro
dialysis in adipos tissue in obese humans before
and after exercise training.

John Coggiola, Associate Professor

Ph.D., Florida State University, 1997
Music education

Kalena Cortes, Assistant Professor

Ph.D., University of California, Berkeley,
2002
Economics of education, labor economics,
policy evaluation

Elsa DeKaney, Assistant Professor

Ph.D., Florida State University, 2001
Choral music, and conducting, Brazilian music,
music and culture

Keith DeRuisseau, Assistant Professor

Ph.D., Florida State University, 2002
Movement sciences

Helen Doerr, Professor

Ph.D., Cornell University, 1994
Mathematics education; mathematical
modeling, functions and problem-solving using
computing technology, teacher professional
development

Benjamin Dotger, Assistant Professor

Ph.D., North Carolina State University, 2006
Teacher professional development,
educational administration

Sharon Dotger, Assistant Professor

Ph.D.
Ph.D. North Carolina State University 2006
Science teaching and learning, lesson study,
writing in science.

Philip Doughty, Associate Professor

Emeritus
Ph.D., Florida State University, 1972
Instructional development, cost-effectiveness
analysis

Timothy Eatman, Assistant Professor

Ph.D., University of Illinois-Champaign,
2001
Research Director, Imagining America

Catherine Engstrom, Associate Professor,
Chair

Ph.D., University of Maryland, 1991
Student personnel administration, counseling,
and personnel services

Gail Ensher, Professor

Ed.D., Boston University, 1971
Early childhood education of special-needs
students

Ansley Erickson, Assistant Professor

Cultural Foundations of Education

Beth Ferri, Associate Professor

Ph.D., University of Georgia, 1997
Disability studies, inclusive education, women
with disabilities, feminist and critical
pedagogies and methods, qualitative and
participatory research methods, narrative
inquiry

Alan Foley, Associate Professor

Ph.D., University of Wisconsin, 2001
Curriculum and instruction, educational
communications and technology

Dennis Gilbride, Professor, Chair

Ph.D., University of Southern California,
1985
Vocational development and career counseling,
counseling psychology

Marcelle Haddix, Assistant Professor

Ph.D., Boston College, 2008
English education, critical literacy, racial and
linguistic diversity in teacher education

Wendy Harbour, Assistant

Professor
Lawrence B. Taishoff Professor
Ed.D.
Ed.D. Harvard University 2008 Disability in
k-12 and higher education, disability studies,
deaf studies, universal design.

Kathleen Hinchman, Professor

Ph.D., Syracuse University, 1985
Adolescent literacy and literacy teacher
education

Susan Hynds, Professor Emeritus

Ph.D., Vanderbilt University, 1983
Sociocultural dimensions of teacher education
and adolescent literacy and literacy teacher
education

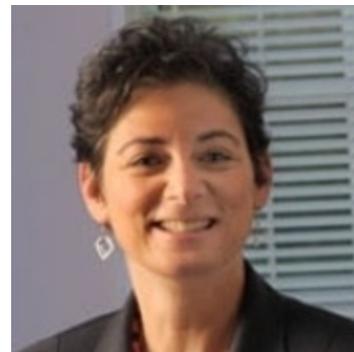
Dawn Johnson, Assistant Professor

Ph.D. candidate, University of Maryland
Experiences of women of color in math,
science, and engineering programs, the impact
of social justice education courses on attitudes
toward diversity

- Eunjoo Jung**, Assistant Professor
Ed.D.
Ed.D. Illinois State University 2004
Investigation of factors that affect student learning and development, including the prediction of educational factors that influence academic achievement and social development of young children.
- Stefan Keslacy**, Assistant Professor
Ph.D., University of Montpellier I School of Medicine (France), 2005
Cellular effects of exercise, inflammation and obesity, NF-kBand insulin resistance
- Alanna King Dail**, Assistant Professor
Reading and Language Arts
- Tiffany Koszalka**, Associate Professor
Ph.D., Pennsylvania State University, 1999
Technology integration in K-12 science, math, geography; technology learning environments
- Jing Lei**, Assistant Professor
Ph.D., Michigan State University, 2005
Learning, technology, culture
- Gretchen Lopez**, Assistant Professor
Ph.D., University of Michigan, 1993
Intergroup relations, multicultural education, social identities
- Melissa Luke**, Assistant Professor
Ph.D.
Ph.D. Syracuse University 2007 School Counseling program implementation and supervision, school-family-community partnerships to support college access for historically marginalized students.
- Gerald Mager**, Meredith Professor, Associate Dean
Ph.D., Ohio State University, 1978
Teacher education, career development, supervision and curriculum
- Jeffery Mangram**, Assistant Professor
Ph.D., Syracuse University, 2006
Teaching and curriculum
- Joanna Masingila**, Meredith Professor, Chair
Ph.D., Indiana University, Bloomington, 1992
Teaching and Leadership; Area Coordinator, Mathematics Education;
Ethnomathematics, teacher education, multimedia case studies in teacher professional development; connecting mathematics practice in and out of school
- Delynn Orton**, Visiting Instructor
M.Ed.
M.Ed. Michigan State University in motor development/motor learning B.S. in Health, Physical Education, and Recreation Michigan State University Adapted physical education San Jose State University Research interest: Pedagogy in adapted sport; especially adapted tennis and wheelchair tennis. Program development/partnerships with Syracuse Veterans Medical Hospital, New York Special Olympics, and United States Tennis Association.
- Elizabeth Payne**, Assistant Professor, Part-time
Ph.D.
Ph.D. University of Houston M.Ed. Texas Christian University A sociologist of education, specializing in qualitative research methodology, critical theory, youth culture, and LGBTQ youth. Founding director of the new Q Youth Center @ AIDS Community Resources; The Youth and Sexuality Education Resource for The National Episcopal Church, writes HIV education curricula for youth and teaches HIV education workshops for young people around the country.
- Emily Robertson**, Associate Professor
Ph.D., Syracuse University 1981
Philosophy of education, moral and social philosophy, philosophy of the social sciences
- Dalia Rodriguez**, Assistant Professor
Ph.D., University of Illinois, Champaign-Urbana, 2005
Racial inequality, qualitative research methods, policy studies
- James Rolling Jr.**, Associate Professor, Program Chair
Ph.D., Teacher's College, Columbia University, 2003
Studio arts as research practice, visual culture and identity politics, curriculum theory
- Zaline Roy-Campbell**, Associate Professor
Ph.D.
Ph.D. University of Wisconsin-Madison 1992
Unpacking multicultural literate effective instruction for disenfranchised students, dimensions of content literacy for English language learners.
- Jeffrey Rozelle**, Assistant Professor
Ph.D.
Ph.D. Michigan State University 2010 Science teacher learning and socialization; teacher induction; teacher learning from field experiences
- Mara Sapon-Shevin**, Professor
Ed.D., University of Rochester, 1976
Teaching for social justice, anti-racism, inclusive education, cooperative learning, and teacher education
- Derek Seward**, Assistant Professor
Ph.D., University of Rochester, 2009
Counselor education, the experiences of graduate students of color in diversity courses, multicultural training methods
- Joseph Shedd**, Associate Professor
Ph.D., New York State School of Industrial and Labor Relations, Cornell University, 1989
Collective bargaining, organizational behavior
- Richard Shin**, Assistant Professor
Ph.D., Loyola University of Chicago, 2005
Community and mental health counseling, multicultural counseling skills, resiliency factors of urban youth
- Corinne Smith**, Professor, Chair
Ph.D., Syracuse University, 1973
School psychological assessment and intervention practices, learning disabilities
- Nick Smith**, Professor, Chair
Ph.D., University of Illinois, 1975
Evaluation and applied field research methodology
- Emma Suarez**, Dual Assistant Professor
Ph.D., University of Toronto, 2005
Music education, general and choral music specialty
- Steven Taylor**, Centennial Professor;
Director, Center on Human Policy
Ph.D., Syracuse University, 1977
Public policy, sociology of disability, advocacy, qualitative research
- George Theoharis**, Assistant Professor
Ph.D., University of Wisconsin-Madison, 2004
School leadership, inclusive education, elementary social studies
- John Tillotson**, Associate Professor
Ph.D., University of Iowa, 1996
Science teaching preparation, teacher beliefs
- Patricia Tinto**, Associate Professor
Ph.D., Syracuse University, 1990
Math education, teaching and curriculum
- Vincent Tinto**, Distinguished University Professor
Ph.D., University of Chicago, 1971
Sociology of education, research methods, study of learning communities in higher education
- Louise Wilkinson**, Distinguished Professor
Ed.D., Harvard University, 1974
Language and literacy learning, teacher education, education policy, qualitative assessment

L.C. Smith College Of Engineering And Computer Science

Laura J. Steinberg, Dean
227 Link Hall
lcs.syr.edu/



Introduction

These are exciting times in engineering and computer science. Revolutionary changes in multiple areas continue to transform the operations of most traditional employers of engineers and computer scientists. The demand for individuals with degrees in engineering and computer science is greater than ever. In addition, new nontraditional opportunities for engineering and computer science graduates are opening in law, medicine, public policy, finance, management, and communications. Traditional tools and technical know-how are often no longer enough. Today's engineers and computer scientists must possess a broader set of perspectives, experiences, and skills to contribute successfully in a dynamic, rapidly changing world.

Syracuse University's L.C. Smith College of Engineering and Computer Science (LCS) offers courses and programs that are designed to prepare leaders for a high-technology, knowledge-based global community. Through courses in the college and across the University, LCS offers students a breadth of opportunities and experiences that is unmatched by programs at most other universities.

The college offers nine undergraduate programs, accredited by the Accreditation Board for Engineering and Technology (ABET), the recognized accreditor for college and university programs in applied science, computing, engineering, and technology. These programs lead to a bachelor of science degree: aerospace, chemical, civil, computer, electrical, environmental, and mechanical engineering; bioengineering; and computer science. There are two additional programs, engineering physics and systems and information science, which are closed to new students.

New engineering and computer science students enroll in ECS 101 Introduction to Engineering and Computer Science. ECS 101 provides a broad introduction to each of our degree programs, allowing students an opportunity to explore each area before they choose a major. ECS 101 is also open to students of other SU colleges who are interested in exploring the areas of engineering or computer science as a potential field of academic study.

LCS students may choose from a variety of study options, including technical and non-technical minors, combined B.S./M.S. degree programs, and a combined undergraduate degree program between LCS and the College of Arts and Sciences. The college also offers its students opportunities for co-op, study abroad, and undergraduate research.

Founded in 1901, LCS enjoys a long-standing reputation for excellence and innovation. The college community is composed of outstanding students, faculty, and staff who are dedicated to personal excellence and success.

THE COLLEGE MISSION

The mission of the college is to promote learning in engineering and computer science through integrated activities in teaching, research, scholarship, creative accomplishments, and service.

THE COLLEGE VISION

The vision of the college is to earn recognition among universities for engineering and computer science programs that prepare leaders for a high-technology, knowledge-based, global community. The vision for LCS is a distinct student-centered research university model for engineering and computer science education. Features of this model include the following:

- the commitment that all programs relate directly to students and their learning experiences;
- the commitment that research is an integral element of the learning environment;
- the flexibility for students to pursue the diversity of learning opportunities available in a broad university setting; and
- the commitment to world-class quality in courses and programs.

THE STUDENT LEARNING OUTCOMES IN THE COLLEGE

The following learning outcomes are common to all engineering programs in the college:

- an ability to apply knowledge of mathematics, science, and engineering;
- an ability to design and conduct experiments, as well as to analyze and interpret data;
- an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability;
- an ability to function on multidisciplinary teams;
- an ability to identify, formulate, and solve engineering problems;
- an understanding of professional and ethical responsibility;
- an ability to communicate effectively;
- the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
- a recognition of the need for, and an ability to engage in life-long learning;
- a knowledge of contemporary issues;
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Specific objectives and outcomes of the bachelor of science programs are included in their catalog descriptions.

Undergraduate Facilities And Research

The L.C. Smith College of Engineering and Computer Science has facilities in a two-building complex on the SU Main Campus: Edwin A. Link Hall, and the Center for Science and Technology, located at the east end of the Quad. In addition, the college operates teaching and research facilities at the Institute for Sensory Research, located on SU's South Campus.

More than 200 computers are available around the clock for the exclusive use of students in engineering and computer science. The majority of these computers are housed in Windows and UNIX computer labs networked by up-to-date servers offering a range of software appropriate to the disciplines offered by the college. In addition, there is one all-University public Windows lab located in Link Hall. Information about LCS specific IT resources can be found at <http://helpdesk.lcs.syr.edu/>.

Students in the college can readily access campus-wide resources operated by the University's central Information Technology Services (ITS) organization. Wireless network access is available in all LCS buildings and more than 40 campus buildings. Detailed information about campus-wide IT resources is available at <http://its.syr.edu>.

UNDERGRADUATE RESEARCH

Encouraging undergraduate research is a hallmark of the L.C. Smith College of Engineering and Computer Science. We recommend that students undertake research projects as independent study experiences for academic credit.

Individual students may advance the state of knowledge and its application in dramatic ways. Many of our juniors and seniors attend national meetings and present the results of their undergraduate research projects. It is not unusual for our students to win awards in national research paper competitions or to graduate with one or more publications in the archival literature to their credit.

Undergraduate General Regulations

For academic rules and regulations that apply to all University students, see the Academic Rules and Regulations section of this catalog, which also contains special regulations that apply only to students matriculated in the L.C. Smith College of Engineering and Computer Science.

Engineering and computer science students enrolling at Syracuse University must maintain at least a 2.0 grade point average in all engineering, mathematics, and science courses taken at SU. Furthermore, all students must satisfactorily complete at least 24 credits, including summer courses taken here or transferred to Syracuse University from another institution, within any 12-month period to maintain satisfactory progress, with a 2.0 semester and overall average.

For graduation, students must have a minimum cumulative GPA of 2.00 and at least a 2.00 GPA in all LCS, mathematics, and science courses taken at Syracuse University. In addition, students must meet all degree requirements specific to their chosen major.

Arts And Sciences/ Engineering & Computer Science (Combined Degrees)

Arts and Sciences contact Ann Marie McGinnis, Director, Student Records Office, 329 Hall of Languages, 315-443-2205. Arts and Sciences Faculty, See faculty listings under individual programs.

Engineering and Computer Science contact Maria Marceau, Director of Student Records, 130 Link Hall, 315-443-5191. Engineering Faculty, See individual departments listed in the "L.C. Smith College of Engineering and Computer Science."

The College of Arts and Sciences, in cooperation with the L.C. Smith College of Engineering and Computer Science, offers a five-year combined curriculum. Students complete the requirements for and receive two degrees—one degree in a major of their choice in engineering or computer science and one degree in a major in the College of Arts and Sciences. Students who enter this program are urged to talk with advisors in both departments in which they plan to major as soon as possible. It is important that they learn the curricular requirements of each department in order to understand how best to merge the two sets of requirements.

Students register with the College of Arts and Sciences as the home college for the first three years. They receive a basic education in mathematics and science along with a liberal education in the social sciences and humanities. While most of the coursework taken during that time is in the liberal arts, approximately one quarter of the program consists of first- and second-year courses in the engineering field chosen by the students.

After completing the third year, students transfer the home college designation to the L.C. Smith College of Engineering and Computer Science while maintaining a connection with the College of Arts and Sciences. The fourth and fifth years of the program focus on engineering subjects. The B.A. or B.S. degree in the Arts and Sciences major may be awarded upon completion of the fourth year, but increased scheduling options are possible by completing both degrees at the end of the fifth year.

While some flexibility is possible in the program, it is a formalized curriculum. Students usually major in mathematics, biology, physics, or chemistry in the College of Arts and Sciences, although other majors are allowed upon approval by both colleges. The completion of the combined degree program requires a minimum of 150 total credits earned.

Admission requirements are the same as those for students entering the L.C. Smith College of Engineering and Computer Science. Students who are already enrolled in the College of Engineering and Computer Science or the College of Arts and Sciences may transfer into the combined program provided requirements can be met. Such transfers must be approved by both colleges.

Undergraduate Intra-University Transfer

Students who wish to transfer into any program within the L.C. Smith College of Engineering and Computer Science from another school or college within the University should have a strong record of achievement and demonstrated success in key technical courses. Specifically, it is critical for the applicant to have proven their ability to excel in college-level calculus (by completing at least one of MAT 295, 296, or 397 with a grade of B- or better) and science (by completing at least one set of PHY 211/221 or CHE 106/107 with a grade of B- or better). Students who wish to major in computer science must also complete CIS 252 with a grade of at least a B.

Undergraduate Student Services And Programs

The LCS Office of Student Support, located in 123 Link Hall, provides programs and services that are dedicated to promoting excellence in educational, professional, and personal development of undergraduate and graduate students. Student Support programs include the PRIDE Incentive Program, Academic Excellence Workshop (AEW) Program, Students Taking Academic Responsibility (STAR) Program, LCS Pathfinder (Peer Advisor) Program, and SummerStart.

The LCS Career Services and Service Learning office, located in 123 Link Hall, also provides professional assistance and resources to students seeking experiences in cooperative education, internships, part-time positions, and service learning. We also work in partnership with the Center for Career Services to assist students in job placement.

LCS PRIDE OFFICE

The PRIDE Office (Programs Rooted In Developing Excellence) provides programs that meet the needs of and foster excellence in the educational,

professional, and personal development of all students with particular emphasis on African American, Latino/a, Native American, and women students in the L.C. Smith College of Engineering and Computer Science.

The PRIDE Office offers programs that focus on student development and their academic success including the SummerStart Program and the LCS Pathfinders (peer advisors) for newly admitted students. In addition, all students are invited to participate in the Academic Excellence Workshops (AEW), which focus on the mastery of calculus and other fundamental engineering courses; the STAR (Students Taking Academic Responsibility) Program, which provides support in the nonacademic skills that are necessary to ensure student success; and the PRIDE Incentive Program, which celebrates the students' academic achievement. Students can also get assistance with academic advising strategies, career counseling, tutorial assistance, internship identification, grant/scholarship identification, and personal/professional development opportunities.

PRIDE is also committed to helping the student chapters of the National Society of Black Engineers (NSBE), the Society of Hispanic Professional Engineers (SHPE), and the Society of Women Engineers (SWE) realize their programming goals and objectives. The activities, leadership opportunities, and community service projects sponsored by the organizations are important to the students, the college, the University, and the local Syracuse community, as they prepare to be future societal leaders.

PRIDE evolved from the Minority Engineering Program (MEP) Office established in 1976.

Students interested in the PRIDE Office programs should contact the director's office, 123 Link Hall, 315-443-2582, pride@ecs.syr.edu.

Undergraduate Study Abroad

LONDON, MADRID, HONG KONG, SYDNEY, DUBLIN, ISTANBUL, AND SANTIAGO

The L.C. Smith College of Engineering and Computer Science, in cooperation with Syracuse University Abroad, offers qualified engineering and computer science students the opportunity to spend a year at a British university in London or a semester in Madrid. Here they will broaden their technical and intellectual horizons, and enjoy the cultural and social advantages of living in one of the world's great cities.

The London academic-year program is open to students in all engineering and computer science majors. The program is designed for students to spend the entire junior year in London. A normal academic load is taken alongside their British counterparts while receiving full Syracuse University credit. Each student is assigned a British advisor and has all the advantages of membership in the host university, student residence halls, and the Student Union. In addition, students have access to the resources and services of the Syracuse University London Center.

A spring semester engineering program in Madrid is available for juniors who have intermediate/advanced proficiency in Spanish (two years of college-level Spanish or equivalent).

Students enroll in two or three engineering courses at Universidad Politecnica de Madrid (UPM), taking classes alongside Spanish engineering students. LCS students complete their registrations by enrolling in classes at the SU Madrid Center, choosing from a broad selection of elective courses in English or Spanish. They also participate in the SU Madrid homestay program, extensive field trip opportunities, and an optional traveling seminar that begins the semester. The Madrid engineering program is open to most engineering majors.

A new opportunity, starting in 2009, is a one-semester spring program in Hong Kong. This program operates through the Syracuse University Office in Hong Kong in cooperation with a partner Hong Kong university. All classes are in English, and cover topics in most LCS degree programs for the junior year.

Other international study opportunities include, fall or spring semester in Australia, Ireland and Chile, spring semester in Turkey. Summer research programs in Strasbourg or Madrid, or an academic semester or year in one of the world partner universities world-wide who belong to the Global Engineering Education Exchange consortia with Syracuse University. See <http://www.iae.org/en>.

To participate, students must be in good academic standing with a cumulative GPA of 3.00.

For further information, contact the L.C. Smith College of Engineering and Computer Science Study Abroad Office in 130 Link Hall or Syracuse University Abroad, 106 Walnut Place (suabroad.syr.edu).

Undergraduate CO-OP

The LCS Cooperative Education program (Co-op) empowers undergraduate students to take advantage of experiential learning opportunities that have proven to aid them in successfully reaching their post-graduate goals. The Co-op program consists of full-time professional work primarily during the summer. This design allows students the opportunity to gain more than six months of paid work experience in their field of study and still graduate in four years. Working during the academic year is an option that students may choose, with the understanding that their ability to graduate on time may be affected. To be eligible, students must be enrolled full time in the L.C. Smith College of Engineering and Computer Science.

Contact Cooperative Education Program, L.C. Smith College of Engineering and Computer Science, 123 Link Hall, 315-443-2582

Undergraduate Minors

Engineering Students

Engineering students can pursue any minor within the University. Students are required to complete from 128 to 139 credits, depending on their program of study. Minors can be earned by taking optional or additional coursework. Minors commonly pursued include mathematics, economics, and management.

Computer Science Students

Computer science students can easily pursue any minor within the University. Of the 123 credits required for graduation, 9 credits are free electives. Minors commonly pursued are mathematics, cognitive science, or operations management.

All Other Students

Students enrolled in colleges other than Engineering and Computer Science can earn a minor in computer science. Students with sufficient background in math and science can pursue a minor in computer engineering or electrical engineering.

Bioengineering Students

Bioengineering students can earn a mathematics minor within the prescribed curriculum. Other minors (e.g., biology) can be earned by taking additional courses. Students enrolling with AP credit or who take summer school courses can easily select from a variety of minors.

Computer Engineering Students

Students can easily pursue two minors simultaneously. Without adding any courses to their programs of study, they can pursue a minor in mathematics, and

a second one in a discipline outside the College of Engineering and Computer Science.

Electrical Engineering Students

Students can easily pursue a technical minor, a non-technical minor without adding any additional course to their program of study. Additionally, a mathematics minor can be obtained by taking only one additional math course.

MINOR IN COMPUTER ENGINEERING

Minor Coordinator - C.Y. Roger Chen, 4-133 Center for Science and Technology, 315-443-4179, crchen@syr.edu .

The minor in computer engineering (18 credits) must include the following courses:

ECS 102 Introduction to Computing
CSE 261 Digital Logic Design
CSE 281 Computer Organization and Assembly Language
CSE 283 Introduction to Object-Oriented Design
CSE 381 Computer Architecture
CSE 382 Algorithms and Data Structures

MINOR IN COMPUTER SCIENCE

Minor Coordinator - Jae Oh, 4-283 Center for Science and Technology, 315-443-4740, jco@syr.edu.

The minor in computer science requires the completion of 18 credits (five or six courses) in CIS courses with an overall grade point average of at least 2.5, and with no individual course grade below C-. These 18 hours must include CIS 252 and CIS 351, and at least 12 credits must come from courses numbered 300 or greater. All courses must be intended for CIS majors.

MINOR IN ELECTRICAL ENGINEERING

Minor Coordinator - Qi Wang Song, 335A Link Hall, 315-443-1516, qwsong@syr.edu.

Academic Requirements

The minor in electrical engineering (EE) (20 credits) is available to any Syracuse University student who has the appropriate prerequisites such as calculus and calculus-based physics. Students must complete 8 credits of required sophomore courses shown below and 12 credits of junior- or senior-level elective courses offered by the electrical engineering program. Students may choose the elective courses to give them a breadth of coverage or complete a track* in a specific concentration area as described in the catalog.

ELE 231 EE Fundamentals I (3)
ELE 291 EE Lab I (1)
ELE 232 EE Fundamentals II (3)
ELE 292 EE Lab II (1)
ELE EE Junior or senior courses (12)

*Tracks are intended to provide a cohesive set of technical electives for EE students. A track consists of a sequence of two senior-level elective courses and their appropriate prerequisites. The current examples of tracks in EE are all 12 credits. More information can be found in the EE curriculum description.

MINOR IN ENERGY SYSTEMS

Minor Coordinator - Frederick Carranti, 247 Link Hall, 315-443-4346, carranti@syr.edu.

This minor option will provide students enrolled in the Mechanical Engineering B.S. program with a grouping of courses/ electives that will provide academic depth in the field of energy related systems, especially as related to building energy and environmental systems.

Requirements

Admission to the energy systems minor is by permission of an academic advisor and requires students to be enrolled in the B.S. in mechanical engineering program.

Course Requirements

The following courses must be taken in place of some elective courses in the current B.S.M.E. curriculum. Total credits for degree remains unchanged.

ECN 203 Economic Ideas and Issues

MAE 551 Energy Conversion

MFE 548 Engineering Economics

Two energy systems electives selected from:

MAE 552 Building Environmental Measurements and Controls

MAE 553 HVAC Systems Design and Analysis

MAE 554 Principles of Refrigeration

MAE 585 Principles of Turbomachinery

Other To be announced

Three social sciences/humanities electives and one free elective

In addition, MEE 471/472 Synthesis of Mechanical Systems I,II, must involve an "energy related" design project.

MINOR IN ENGINEERING AND COMPUTER SCIENCE MANAGEMENT

Minor Coordinator Engineering - Frederick Carranti, 247 Link Hall, 315-443-4346, carranti@syr.edu.

Minor Coordinator Management - Dawn Kline, 215 Whitman School of Management, 315-443-4356, dkline@syr.edu.

This minor is designed to provide LCS students with a relevant non-technical minor. It is open to all SU students with approval of their home college. The requirements are

ECS 391 Legal aspects of LCS

ECS 392 Ethical Aspects of LCS

Two upper-level management courses selected from the following:

EEE 370 Introduction to Entrepreneurship

EEE 382 Entrepreneurial Marketing

EEE 451 Finance for Emerging Enterprises

FIN 301 Finance for Non-Business Students

LPP 458 Environmental Law and Public Policy

SHR 355 Introduction to Human Resource Management

Two courses selected from the following:

ACC 201 Introduction to Accounting for Non-Management Students
ECN 203 Economic Ideas and Issues
MAR 301 Marketing for Non-Management Students
SHR 247 Strategy and Leadership

Undergraduate Degree Programs

Aerospace Engineering

Program Director Hiroshi Higuchi, 263 Link Hall, 315-443-4311, hhiguchi@syr.edu .

Bioengineering

Program Director J.M. Hasenwinkle, 359 Link Hall, 315-443-3064, jmhasenw@syr.edu .

Chemical Engineering

Program Director John Heydweiller, 363 Link Hall, 315-443-4467, jcheydwe@syr.edu .

Civil Engineering

Chair TBD, 151 Link Hall, 315-443-2311.

Computer Engineering

Program Director C.Y. Roger Chen, 4-133 Center for Science and Technology, 315-443- 4179, crchen@syr.edu.

Computer Science

Program Director Jae C. Oh, D 4-283 Center for Science and Technology, 315-443-4740, jcoh@syr.edu.

Electrical Engineering

Program Director Qi Wang Song, 335A Link Hall, 315-443-1516, leejk@syr.edu qwsong@syr.edu .

Environmental Engineering

Program Director Chris E. Johnson, 151 Link Hall, 315-443-2311, cejohns@syr.edu .

Mechanical Engineering

Program Director Alan J. Levy, 263 Link Hall, 315-443-4365, ajlevy@syr.edu .

Arts and Sciences/Engineering & Computer Science (Combined Degrees)

Arts and Sciences contact Ann Marie McGinnis, Director, Student Records Office, 329 Hall of Languages, 315-443-2205.
Engineering & Computer Science contact Maria Marceau, Director of Student Records, 130 Link Hall, 315-443-5191.

Engineering faculty See individual departments listed in the “L.C. Smith College of Engineering and Computer Science.”

The College of Arts and Sciences, in cooperation with the L.C. Smith College of Engineering and Computer Science, offers a five-year combined curriculum. Students complete the requirements for and receive two degrees—one degree in a major of their choice in engineering or computer science and one degree in a major in the College of Arts and Sciences. Students who enter this program are urged to talk with advisors in both departments in which they plan to major as soon as possible. It is important that they learn the curricular requirements of each department in order to understand how best to merge the two sets of requirements.

Students register with the College of Arts and Sciences as the home college for the first three years. They receive a basic education in mathematics and science along with a liberal education in the social sciences and humanities. While most of the coursework taken during that time is in the liberal arts, approximately one quarter of the program consists of first- and second-year courses in the engineering field chosen by the students.

After completing the third year, students transfer the home college designation to the L.C. Smith College of Engineering and Computer Science while maintaining a connection with the College of Arts and Sciences. The fourth and fifth years of the program focus on engineering subjects. The B.A. or B.S. degree in the Arts and Sciences major may be awarded upon completion of the fourth year, but increased scheduling options are possible by completing both degrees at the end of the fifth year.

While some flexibility is possible in the program, it is a formalized curriculum. Students usually major in mathematics, biology, physics, or chemistry in the College of Arts and Sciences, although other majors are allowed upon approval by both colleges. The completion of the combined degree program requires a minimum of 150 total credits earned.

Admission requirements are the same as those for students entering the L.C. Smith College of Engineering and Computer Science. Students who are already enrolled in the College of Engineering and Computer Science or the College of Arts and Sciences may transfer into the combined program provided requirements can be met. Such transfers must be approved by both colleges.

Academic Offerings

Aerospace Engineering Program

Program Director Hiroshi Higuchi, 263 Link Hall, 315-443-4311.

Faculty Thong Dang, John F. Dannenhoffer, Barry D. Davidson, Mark N. Glauser, Hiroshi Higuchi, John E. LaGraff, Vadrevu R. Murthy, Harish Palanthandalam-Madapusi, Eric F. Spina

The mission of the aerospace engineering program at Syracuse University is to educate and promote learning and discovery in aerospace engineering and to prepare students for a career of technical excellence, professional growth, and eventual leadership in a complex and competitive technological environment.

The educational objectives of the aerospace engineering curriculum are to enable graduates of the program to do the following:

- apply the physical, mathematical, and engineering sciences to professional practice or to advanced study in aerospace (mechanical engineering or related fields);

- be cognizant of societal context and ethical responsibility in professional practice;
- function productively on teams and communicate ideas to both technical and non-technical audiences; and
- be agile, innovative, and adaptable in an increasingly diverse and global environment.

Opportunities for aerospace engineers will continue to expand within the military, civilian, and general aviation sectors spurred on by the development of new aircraft that extends to civilian supersonic aircraft and unmanned aerial vehicles. This growth in aircraft demand (as well as the need for higher efficiencies, longer ranges, and lower cost aircraft) is being fueled by the increasing global demand for air travel in the international marketplace. Space exploration has also entered a period of increased activity that includes an increased exploitation of satellites to service the demand for global communication, the need for low-cost assured access to space, the international space station, and planetary missions.

We prepare our students for this changing environment by providing an opportunity to gain marketable and relevant skills that can lead to success in a wide range of careers. The distinctive signature of undergraduate mechanical and aerospace engineering at Syracuse University is the ability to fit either a technical or a non-technical minor into the curricula. Students explore the breadth of Syracuse University by complementing their mechanical or aerospace engineering degree with a minor in business, public policy, fine arts, public communications, and many more.

The technical focus of the B.S. program in aerospace engineering (AEE) is to develop a sound educational basis for the analysis and design of aerospace systems, with emphasis on the structure, aerodynamics, flight/orbital mechanics, and propulsion of aircraft and spacecraft systems. Aerospace engineering is a field constantly pushing the limits of technology. The B.S. AEE program stresses the fundamental physical, mathematical, and engineering principles that form the broadest base for future work in a fast-changing field.

The B.S. AEE program is designed to prepare graduates for either immediate employment or for continuing studies at the graduate level. One distinguishing feature of the program is the opportunity for undergraduate students to participate in current research projects, which provide first-hand exposure both to advanced topics of current interest and to challenges typical of graduate school or industrial research. Research experiences for undergraduates are available in many areas, including fluid dynamics, aerodynamics, solid mechanics, and applications of high-performance computers.

Requirements for the B.S. AEE program appear below. For the first five semesters the recommended sequence of courses for the B.S. AEE program is nearly identical to the recommended program for the B.S. degree in mechanical engineering (MEE), which demonstrates the similarity and complementary nature of the two disciplines. Courses carrying the prefix MAE indicate class material and assignments are drawn from both aerospace and mechanical engineering applications. Beginning in the sixth semester, students in the B.S. AEE program begin taking courses addressing topics unique to aerospace engineering, including aerodynamics, aircraft structures, propulsion systems, and the dynamics of aerospace vehicles.

Experience with open-ended design problems is obtained in a sequence of courses that span the entire curriculum. The sequence begins with introductory design experience in the first-year courses ECS 101 and MAE 184. Upper-division courses involving design content include classes on the mechanics of solids and structures, aerospace structures, aerospace vehicle dynamics, aerodynamics, dynamics and controls, and propulsion. The design sequence culminates with the cap-stone design experience (AEE 472) that requires students to integrate knowledge from all areas in the design of a complete aircraft or spacecraft system.

Topics relevant to the analysis and design of space vehicles are included in AEE 427, 446, 471, and 577. Elective courses that include significant material concerning space topics include AEE 542 Hypersonic Gas Dynamics, and AEE 491, 492 Hypersonic Research Project I and II.

The B.S. AEE curriculum allows for programs of study that can be tailored by students to take advantage of the diversity of strengths across both ECS and all of Syracuse University. We provide engineering students with opportunities to complete minors in areas that can complement technical knowledge—such as international affairs, business, and public policy—thus enhancing the value and attractiveness of a Syracuse engineering education. Students can also elect to pursue a technical minor or take a distribution of electives, which will include liberal arts classes, free electives, and additional depth in aerospace engineering. There are a total of 24 elective credits in the B.S. AEE program, at least 6 of which must be chosen from the social sciences or humanities (SSH). The remaining 18 credits allow program customization for each student, and can be distributed in any of three different ways:

1. completion of a non-technical University minor;
2. 15 credits toward a technical minor and 3 credits of SSH, or
3. a distribution of electives:
 - a. 6 credits of SSH
 - b. 6 credits of technical electives
 - c. 6 credits of free electives

Students are encouraged to develop a plan for elective selection during their first year. The planning process should include discussions with the student's academic advisor, other faculty members, and peer advisors. The MAE Department offers most undergraduate technical elective courses on a two-year cycle. It may be necessary for a student to modify the sequence of courses to accommodate a technical elective course of personal interest.

In addition to successfully completing the requirements for the aerospace program, graduates from this program must also achieve the following educational outcomes:

- an ability to apply knowledge of mathematics, science, and engineering
- an ability to design and conduct experiments, as well as to analyze and interpret data
- an ability to design a system, component, or process to meet desired needs, including the integration of multiple aeronautical topics
- an ability to function on multidisciplinary teams
- an ability to identify, formulate, and solve engineering problems
- an understanding of professional and ethical responsibility
- an ability to communicate effectively
- the broad education necessary to understand the impact of engineering solutions in global and societal contexts
- a recognition of the need for, and an ability to engage in life-long learning
- a knowledge of contemporary issues
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
- a knowledge of aerodynamics, aerospace materials, structures, propulsion, flight mechanics, and stability and control, as well as a knowledge of orbital mechanics, spacecraft structures, and rock propulsion.

This program is accredited by the Accreditation Board for Engineering and Technology (ABET).

Aerospace Engineering Requirements

First Year, Fall Semester

ECS 101 Introduction to Engineering and Computer Science (3)

MAT 295 Calculus I (4)

CHE 106 General Chemistry Lecture I (3)

CHE 107 General Chemistry Lab I (1)

WRT 105 Studio 1: Practices of Academic Writing (3)

Elective #1 (3)
Total 17

First Year, Spring Semester
MAE 184 Engineering Graphics and Computer-Aided Design (3)
ECS 104 Engineering Computing Tools (3)
MAT 296 Calculus II (4)
PHY 211 General Physics I (3)
PHY 221 General Physics Lab I (1)
Elective #2 (3)
Total 17

Second Year, Fall Semester
ECS 221 Statics (3)
MAT 397 Calculus III (4)
PHY 212 General Physics II (3)
PHY 222 General Physics Lab II (1)
MAT 331 Linear Algebra (3)
Elective #3 (3)
Total 17

Second Year, Spring Semester
MAE 251 Thermodynamics (4)
ECS 222 Dynamics (3)
ECS 325 Mechanics of Solids (4)
MAT 514 Introduction to Ordinary Differential Equations (3)
WRT 205 Studio 2: Critical Research and Writing (3)
Total 17

Third Year, Fall Semester
MAE 315 Mechanical and Aerospace Engineering Lab I (3)
CIE 327 /MAE 341 Fluid Mechanics (4)
ECS 326 Engineering Materials, Properties, and Processing (3)
ELE 231 Electrical Engineering Fundamentals I (3)
ELE 291 Electrical Engineering Laboratory I (1)
Elective #4 (3)
Total 17

Third Year, Spring Semester
AEE 342 Aerodynamics (4)
AEE 343 Compressible Flow (3)
MAE 321 Dynamics of Mechanical Systems (3)
Elective #5 (3)
Elective #6 (3)
Total 16

Fourth Year, Fall Semester
AEE 427 Dynamics of Aerospace Vehicles (4)
AEE 446 Propulsion (3)
AEE 471 Design and Analysis of Aerospace Structures (4)
Elective #7 (3)
Total 14

Fourth Year, Spring Semester
ELE 312 Linear Control Systems (3)
AEE 472 Synthesis of Aerospace Systems (4)
AEE 577 Space Flight (3)
Elective #8 (3)
Total 13
Program Total 128

Recommended Technical Electives

AEE 490 Independent Study
AEE 527 Helicopter Dynamics
AEE 542 Hypersonic/High Temperature Gas Dynamics
MAE 355 Fundamentals of Heat and Mass Transfer
MAE 536 Composite Materials
MAE 571 Application of Computational Fluid Dynamics
MAE 585 Principles of Turbomachines

Bioengineering

Program Director J.M. Hasenwinkel, 359 Link Hall, 315-443-3064, Fax 315-443-9175, jmhasenw@syr.edu .

Full-time Faculty R. Bader, A. Darling, J.L. Gilbert, J.M. Hasenwinkel, J.H. Henderson, J.C. Heydweiller, G.C. Martin, P.T. Mather, D. Ren, A. Sangani, R. Sureshkumar, L.L. Tavlarides.

Emeritus/Adjunct Faculty G. Duca, G. Engbretson, K. Ogden, P.A. Rice, K. Schroeder, R.L. Smith, C. Tien, C. Zemlin, J.J. Zwislocki

The mission of the Department of Biomedical and Chemical Engineering is to provide students with mentoring, curricular experience, and extracurricular opportunities consistent with their individual career objectives in order to

- prepare them to apply science, mathematics, and engineering knowledge to serve the needs of society;
- instill in them a deep sense of respect for others and a strong foundation in professional and social ethics; and
- develop in them the understanding that continued education will further their professional and leadership skills.

Program Educational Objectives

The objectives of the undergraduate bioengineering program are:

- graduates will master engineering and biological fundamentals enabling them to apply critical thinking to solve problems at the interface of science or medicine and engineering;
- graduates will have a broad education that develops their ability to make informed and ethical decisions and understand the engineer's role in society;
- graduates will be able to effectively communicate their work and ideas;
- graduates will be prepared for success in the biomedical industry and postgraduate education in engineering, science, or professional studies.

The bioengineering program is designed for students interested in the application of physical science techniques to life-science problems, preparing them for graduate study in bioengineering or medicine as well as for careers in biomedical instrument design, medical device design, orthopedic prosthesis design, or engineering support for healthcare services. Introduced in the student's first semester and culminating in the senior year with a capstone project, the important topic of engineering design is an integral part of the curriculum. Fundamental concepts from courses across the entire curriculum are integrated with formally delivered design concepts to produce a project. The project is presented to the faculty in both oral and written forms.

The bioengineering curriculum provides a solid foundation in mathematics, physics, engineering, and biology in preparation for advanced specialized studies. A new curriculum was approved in fall 2008. Students who entered the program prior to fall 2008 should follow the old curriculum which has options in bioinstrumentation and biomechanics. The curriculum for the first two years is the same for both options, with specialization in the last two years. In consultation with a faculty advisor, students can specialize their curriculum to emphasize preparation for industry, research, or premedical studies. A highlight of the bioengineering program is the senior thesis, which brings together the student's skills in engineering, science, writing, and design to produce an original project. Two sample curricula are outlined below. The first lists typical courses in the bioinstrumentation option; the second, in the biomechanics option.

Students who enter the program after fall 2008 should follow the new curriculum which shares several courses with the chemical engineering program. These courses provide our students with a strong background in the engineering sciences so they can explore emerging topics at the interface of the two fields.

Students interested in research with the possibility of continued study in graduate school are encouraged to elect one or more independent study projects and a graduate-level course in an area of research interest. Appropriate

use of electives in this emphasis and strong academic performance can lead to graduation with University Honors.

With the careful selection of electives in either the old or new curriculum, a student can meet the entrance requirements established by the Association of American Medical Colleges. This program is accredited by the Accreditation Board for Engineering and Technology (ABET).

BIOENGINEERING (OLD CURRICULUM)

(Bioinstrumentation Option)

Mathematics (15)

- MAT 295 Calculus I (4)
- MAT 296 Calculus II (4)
- MAT 397 Calculus III (4)
- MAT 485 Differential Equations and Matrix Algebra for Engineers (3)

Sciences (26)

- BIO 121 or BIO 123 General Biology (4)
- BIO 326/327 Genetics and Cell Biology I or II (3)
- CHE 106 General Chemistry I (3)
- CHE 107 General Chemistry Lab I (1)
- CHE 116 General Chemistry II (3)
- CHE 117 General Chemistry Lab II (1)
- NEU 211 Introduction to Neuroscience (3)
- PHY 211 General Physics I (3)
- PHY 221 General Physics Lab I (1)
- PHY 212 General Physics II (3)
- PHY 222 General Physics Lab II (1)

English/Social Science/Humanities (24)

- WRT 105 Studio 1: Practices of Academic Writing (3)
- WRT 205 Studio 2: Critical Research and Writing (3)
- Social Science/Humanities Electives (18)

Engineering (23)

- CEN 212 Experimental Methods in Chemical Engineering and Bioengineering (3)
- CSE 261 Digital Logic Design (3)
- ECS 101 Introduction to Engineering and Computer Science (3)
- ECS 221 Statics (3)
- ELE 231 Electrical Engineering Fundamentals I (3)
- ELE 232 Electrical Engineering Fundamentals II (3)
- ELE 291 Electrical Engineering Lab I (1)
- ELE 292 Electrical Engineering Lab II (1)
- ELE 352 Digital Signal Processing (3)

Bioengineering (36)
BEN 205 Bioengineering Seminar (1)
BEN 305 Engineering Analysis of Living Systems I (4)
BEN 306 Engineering Analysis of Living Systems II (4)
BEN/ELE 312 Controls System (3)
BEN/ELE 351 System and Signal Analysis (3)
BEN 458 Biomedical Imaging (3)
BEN 465 Skeletomuscular Biomechanics (4)
BEN 481 Bioinstrumentation Lab I (4)
BEN 482 Bioinstrumentation Lab II (4)
BEN 487 Bioengineering Capstone Design (3)
BEN 498 Senior Thesis (3)
Technical Electives (9)

Total 133

BIOENGINEERING (Biomechanics Option)

Mathematics (15)
MAT 295 Calculus I (4)
MAT 296 Calculus II (4)
MAT 397 Calculus III (4)
MAT 485 Differential Equations and Matrix Algebra for Engineers (3)
CEN 212 Experimental Methods in Chemical Engineering and Bioengineering (3)

Sciences (26)
BIO 121 or BIO 123 General Biology (4)
BIO 326/327 Genetics and Cell Biology I or II (3)
CHE 106 General Chemistry I (3)
CHE 107 General Chemistry Lab I (1)
CHE 116 General Chemistry II (3)
CHE 117 General Chemistry Lab II (1)
NEU 211 Introduction to Neuroscience (3)
PHY 211 General Physics I (3)
PHY 221 General Physics Lab I (1)
PHY 212 General Physics II (3)
PHY 222 General Physics Lab II (1)

English/Social Science/Humanities(24)
WRT 105 Studio 1: Practices of Academic Writing (3)
WRT 205 Studio 2: Critical Research and Writing (3)
Social Science/Humanities Electives (18)

Engineering (21)
ECS 101 Introduction to Engineering and Computer Science (3)
ECS 221 Statics (3)
ECS 325 Mechanics of Solids (4)
ECS 326 Engineering Materials, Properties, and Processing (3)
ELE 231 Electrical Engineering Fundamentals I (3)
ELE 232 Electrical Engineering Fundamentals II (3)
ELE 291 Electrical Engineering Lab I (1)
ELE 292 Electrical Engineering Lab II (1)

Bioengineering (35)
BEN 205 Bioengineering Seminar (1)
BEN 305 Engineering Analysis of Living Systems I (4)
BEN 306 Engineering Analysis of Living Systems II (4)
BEN/ELE 312 Control Systems (3)
BEN/ELE 351 System and Signal Analysis (3)
BEN 465 Skeletomuscular Biomechanics (4)
BEN 466 Advanced Biomechanics (4)
BEN 467 Advanced Biomechanics Lab (3)
BEN 468 Biomaterials (3)
BEN 497 Senior Thesis I (1)
BEN 498 Senior Thesis II (5)

Electives (9)
Technical Electives (9)

Total 133

BIOENGINEERING (NEW CURRICULUM)

Mathematics (15)
MAT 295 Calculus I (4)
MAT 296 Calculus II (4)
MAT 397 Calculus III (4)
MAT 485 Differential Equations and Matrix Algebra for Engineers (3)

Sciences (24)
BIO 327 Genetics and Cell Biology II (3)

CHE 106 General Chemistry I (3)
CHE 107 General Chemistry Lab I (1)
CHE 116 General Chemistry II (3)
CHE 117 General Chemistry Lab II (1)
CHE 275 Organic Chemistry I (3)
CHE 276 Organic Chemistry Lab 1(2)
PHY 211 General Physics I (3)
PHY 221 General Physics Lab I (1)
PHY 212 General Physics II (3)
PHY 222 General Physics Lab II (1)

English/Social Science/Humanities (24)
WRT 105 Studio 1: Practices of Academic Writing (3)
WRT 205 Studio 2: Critical Research and Writing (3)
Social Science/Humanities Electives (18)

Engineering (18)
ECS 101 Introduction to Engineering and Computer Science (3)
ECS 104 Engineering Computational Tools (3)
ECS 221 Statics (3)
ECS 326 Engineering Materials, Properties, and Processing (3)
ELE 231 Electrical Engineering Fundamentals I (3)
ELE 232 Electrical Engineering Fundamentals II (3)

Bioengineering (41)
BEN 212 Experimental Methods in CEN and BEN (3)
BEN 231 Mass and Energy Balances (3)
BEN 301 Biological Principles for Engineers (4)
BEN 333 Fluid Transport (3)
BEN 341 Fundamentals of Heat and Mass Transfer (4)
BEN 364 Quantitative Physiology (4)
BEN 465 Biomechanics (3)
BEN 468 Biomaterials (3)
BEN 481 Bioinstrumentation (3)
BEN 485 Bioengineering Laboratory (4)
BEN 487 Bioengineering Capstone Design (4)
BEN 575 Process Control (3)

Electives (9)
Technical Electives (9)

Total 133

Chemical Engineering

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Emeritus/Adjunct Faculty G. Duca, G. Engbretson, K. Ogden, P.A. Rice, K. Schroeder, R.L. Smith, C. Tien, C. Zemlin, J.J. Zwislocki

The mission of the chemical engineering program is to prepare students to hold leadership positions in chemical engineering, continue their education through advanced study, and appreciate the impact of engineering on society.

Graduates of the program will have mastered the chemical engineering fundamentals necessary to serve as practicing engineers and will be prepared for further studies in engineering, science, or other professions. These fundamentals include an understanding of basic engineering concepts, the collection of information from experimentation and from the scientific and technical literature, and the prediction of system behavior through the development and application of mathematical models.

Graduates will be able to apply critical thinking, problem solving, and teamwork and research skills to the design of chemical engineering processes and the solution of scientific and technical problems.

Graduates will be able to effectively synthesize and then communicate their work and ideas through written, oral, and visual and graphical formats and they will understand the impacts on and responsibilities to society of chemical engineering practices.

Chemical engineering has a rich past; chemical engineers have been identified with the large scale manufacture of numerous products including chemicals, fibers, foods, fuels, pharmaceuticals, plastics, pulp and paper, and rubber. Because chemical engineering is the most versatile of the engineering disciplines, chemical engineers in the future will contribute to diverse new and emerging technologies. They will seek new ways to process our energy and natural resources; they will play key roles in the areas of environmental cleanup and protection, management of hazardous wastes, and process and product safety. They will be involved in new technologies such as biotechnology and biomedicine, and in the development and production of new materials such as polymers, ceramics, and advanced composites.

The chemical engineering curriculum prepares students to apply the fundamentals of chemistry, physics, and engineering to problems related to the efficient and safe production of chemical and related products. The program focuses on developing a solid background in the principles of chemical engineering and their applications to the challenges facing industry and society. If a student wishes to specialize in biochemical, environmental, or polymer engineering, he or she can select appropriate science and engineering courses to supplement the general curriculum.

The chemical engineering program is accredited by the Accreditation Board for Engineering and Technology (ABET). The curriculum prepares students to apply the fundamentals of chemistry, physics, mathematics, and engineering to diverse problems in the field of chemical engineering. Engineering design

concepts are integrated throughout all four years of the chemical engineering program.

Beginning with ECS 101 in the fall of the first year, students are introduced to the engineering method for problem solving, and concepts of engineering design. In this way students see how mathematics, basic sciences, and engineering science provide the necessary tools for design and how to go about the design process.

During the sophomore, junior, and senior years, problems of increasing complexity and open-endedness are presented to students in the chemical engineering courses, continually challenging their technical expertise, creativity, and knowledge.

Finally, in their senior year courses, students are required to complete major design projects in their courses and laboratory. These projects are open-ended and designed to build upon the students' understanding and mastery of the fundamentals of mathematics, sciences, and engineering topics. They also consider broader social issues in addition to technical issues such as environmental impact and safety.

Many students take advantage of the low student/faculty ratio by participating in research or independent study projects. There are part-time, summer, and co-op opportunities available for students seeking work experience. International study opportunities are also available.

Graduates from the program in chemical engineering must achieve the following outcomes:

- an ability to apply knowledge of mathematics, science, and engineering;
- an ability to design and conduct experiments, and to analyze and interpret data;
- an ability to design a system, component, or process to meet desired needs;
- an ability to function on multidisciplinary teams;
- an ability to identify, formulate, and solve engineering problems;
- an understanding of professional and ethical responsibility;
- an ability to communicate effectively;
- the broad education necessary to understand the impact of engineering solutions in a global and societal context;
- a recognition of the need for, and an ability to engage in life-long learning;
- a knowledge of contemporary issues;
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice;
- an appreciation of diversity issues in society.

Chemical Engineering Requirements

First Year, Fall Semester (17)

CHE 106 General Chemistry Lecture I (3)
CHE 107 General Chemistry Lab I (1)
MAT 295 Calculus I (4)
ECS 101 Introduction to Engineering and Computer Science (3)
WRT 105 Studio 1: Practices of Academic Writing (3)
Social Science/Humanities elective (3)

First Year, Spring Semester (15)

CHE 116 General Chemistry Lecture II (3)
CHE 117 General Chemistry Lab II (1)
MAT 296 Calculus II (4)
PHY 211 General Physics Lecture I (3)
PHY 221 General Physics Lab I (1)
ECS 104 Engr. Comp. Tools (3)

Second Year, Fall Semester (16)

CHE 275 Organic Chemistry I (3)
CHE 276 Organic Chemistry Lab (2)
CEN 231 Mass and Energy Balances (3)
MAT 397 Calculus III (4)
PHY 212 General Physics II (3)
PHY 222 General Physics Lab II (1)

Second Year, Spring Semester (18)

ECS 326 Engr. Materials, Prop. & Proc. (3)
CEN 212 Experimental Methods in Chem. Engr & Bioenr (3)
CEN 252 Chemical Engineering Thermodynamics I (3)
MAT 485 Differential Equations and Matrix Algebra for Engineers (3)
WRT 205 Studio 2: Critical Research and Writing (3)
Social Science/Humanities elective (3)

Third Year, Fall Semester (17)

CHE 346 Physical Chemistry Lecture I (3)
CHE 347 Physical Chemistry Lab I (2)
CEN 333 Fluid Transport (3)
CEN 353 Chemical Engineering Thermodynamics II (3)
WRT 307 Adv. Writing Studio: Professional Writing (3)
Social Science/Humanities elective (3)

Third Year, Spring Semester (15)

CEN 311 Chemical Engineering Laboratory I (2)
CEN 341 Fundamentals of Heat and Mass Transfer (4)
CEN 575 Process Control (3)
CHE 356 Physical Chemistry II (3)
Technical elective (3)

Fourth Year, Fall Semester (17)

CEN 412 Chemical Engineering Laboratory II (2)
CEN 542 Mass and Heat Transfer Operations (3)
CEN 587 Chemical-Reaction Engineering (3)
Technical elective (3)
Social Science/Humanities electives (6)

Fourth Year, Spring Semester (13)
CEN 574 Process Design (4)
Social Science/Humanities elective (3)
Technical electives (6)

Total 128

Civil Engineering

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Adjunct Faculty S. Kaczmar, D. Lake, J.A. Mandel (Emeritus), B. Mousa, E.M. Owens, S. Santanam, D. Wazenkewitz.

The mission of the civil and environmental engineering department is to promote learning and the creation, dissemination, and application of knowledge in civil and environmental engineering through integration of teaching, scholarship, and service.

The goal of the civil and environmental engineering department is to prepare students for engineering practice, advanced study, and lifelong learning in civil and environmental engineering. Graduates are expected to be proficient in the fundamentals of engineering analysis and design and understand the importance and methods of effective communication. Students are encouraged to use the extensive educational resources of Syracuse University and the Syracuse community to broaden and enhance the quality of their university education.

The educational objectives of the civil engineering program are to graduate students who:

- can apply technical knowledge and problem-solving skills to advance their careers and serve the community;
- are prepared for engineering practice and advanced studies in civil engineering;
- will engage in life-long learning to keep themselves abreast of new developments in their fields of practice or study; and
- are capable of effective written and oral communications.

Our program outcomes are in line with those identified by the Accreditation Board for Engineering and Technology (ABET 2000 a-k), i.e., at the time of their graduation, our students should acquire:

- an ability to apply knowledge of mathematics, science, and engineering
- an ability to design and conduct experiments, as well as to analyze and interpret data
- an ability to design a system, component, or process to meet desired needs within realistic constraints
- an ability to function on multidisciplinary teams
- an ability to identify, formulate, and solve engineering problems
- an understanding of professional and ethical responsibility
- an ability to communicate effectively
- an understanding of the impact of engineering solutions in a global, economical, environmental, and societal context
- a recognition of the need for, and an ability to engage in life-long learning
- a knowledge of contemporary issues
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

Civil engineering is the broadest of the engineering disciplines, extending across many interrelated technical specialties. These technical specialties include structures, hydraulics, geotechnical, environmental, transportation, construction, and water resources. Civil engineers plan, design, and supervise the construction of facilities essential to modern life in both the private and the public sectors. These facilities vary widely in nature, size, and scope, and include bridges, buildings, tunnels, highways, transit systems, dams, airports, irrigation projects, facilities for water, collection and treatment facilities for wastewater, and many others.

This program is accredited by the Accreditation Board for Engineering and Technology (ABET).

Civil Engineering Requirements

The first-year curriculum emphasizes the physical and mathematical sciences and includes applications of the computer to civil engineering problems. Additional courses in mathematics and the sciences, as well as introductory courses in civil engineering measurement, are taken during the second year. The last two years of the program focus on planning, design, analysis, and management in civil engineering. The curriculum provides flexibility to allow students to customize their academic programs and take advantage of the diversity of strength across both the college and all of Syracuse University. The four-year program includes coursework in the social sciences and humanities necessary for a well-rounded academic background.

By selecting electives carefully, students may specialize in any of the following areas: structural engineering, which deals with the analysis, design, and rehabilitation of structures under static and dynamic loads; environmental engineering, which involves the purification and distribution of water in cities and the proper disposal of sewage and industrial wastes; and geotechnical engineering, which analyzes the properties of soils and rocks that support and affect the behavior of structures, pavements, and underground facilities; as well as to obtain minors in a variety of subject areas.

Mathematics (15)
MAT 295 Calculus I (4)
MAT 296 Calculus II (4)
MAT 397 Calculus III (4)
MAT 485 Differential Equations and Matrix Algebra for Engineers (3)

Sciences (16)
CHE 106 General Chemistry I (3)

CHE 107 General Chemistry Lab I (1)
PHY 211 General Physics I (3)
PHY 221 General Physics Laboratory I (1)
PHY 212 General Physics II (3)
PHY 222 General Physics Laboratory II (1)
Select one of the following two courses:
EAR 101 Dynamic Earth (4)
EAR 203 Earth System Science (4)

English/Social Science/Humanities (27)
WRT 105 Studio 1: Practices of Academic Writing (3)
WRT 205 Studio 2: Critical Research and Writing (3)
WRT 307 Advanced Writing Studio: Professional Writing (3)
Social Science/Humanities Electives (18)

Engineering (13/14)
ECS 101 Intro to Engineering and Computer Science (3) ECS 221 Statics (3)
ECS 325 Mechanics of Solids (4)
ECS 326 Engineering Materials (3)
Select one of the following three courses:
ECS 222 Dynamics (3)
ELE 231 Electrical Engineering Fundamentals I (3-4)
MAE 251 Thermodynamics (4)

Civil Engineering (41)
CIE 272 Civil and Environmental Engineering Analysis (3)
CIE 274 Civil and Environmental Systems (3)
CIE 327/MAE 341 Fluid Mechanics (4)
CIE 331 Analysis of Structures and Materials (3)
CIE 332 Design of Concrete Structures (3)
CIE 337 Introduction to Geotechnical Engineering (4)
CIE 338 Foundation Engineering (3)
CIE 341 Introduction to Environmental Engineering (3)
CIE 352 Water Resources Engineering (3)
CIE 442 Treatment Processes in Environmental Engineering (4)
CIE 443/ CIE 643 Transportation Engineering (3)
Capstone Design (4)

Technical Electives (6)
Professional Elective (3)
Free Elective (3)

Total 127/128

Computer Engineering

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Computer engineering is a relatively new discipline that is gaining popularity with the recent proliferation of digital computers in our daily lives. A computer engineer is able to work in the fields of digital systems, software engineering, and design automation. Computer engineers develop new applications of computer techniques, which provide increased speed, reliability, and ease of use. In new applications such as computer-controlled spaceship flight systems or nuclear power plants, ultra-high reliability must be assured in the design and testing. These are some of the challenges available to computer engineers.

The educational objective of the bachelor of science in computer engineering (BSCE) program in the Department of Electrical Engineering and Computer Science (EECS) at Syracuse University is to prepare well-rounded graduates that are ready for work and ready for change.

- Well-rounded graduates of the BSCE program are known by their professional competence, innovative thinking, ability to work individually and in diverse teams, leadership abilities, communication skills, and integrity.
- Graduates of the BSCE program who are ready for work are engaged in applying the knowledge acquired in their major, combined with their problem solving abilities, to produce feasible solutions to problems, in a timely manner, which are deemed important in industry, government, or academia.
- Graduates of the BSCE program who are ready for change exhibit the intellectual flexibility necessary to solve new problems in innovative ways by integrating multiple viewpoints from several disciplines in search of the best possible solutions.

This program is accredited by the Accreditation Board for Engineering and Technology (ABET).

Engineering design is taught in each of the four years of the computer engineering program. Beginning with ECS 101 in the first year, students are required to formulate solutions to a variety of open-ended projects. As the students progress through their sophomore and junior years, the projects increase in complexity requiring additional creativity and knowledge. Finally, in the senior year the students are required to complete a major design project that builds upon their mastery of the fundamental concepts of mathematics, basic sciences, the humanities and social sciences, engineering topics, and communication skills.

In addition to successfully completing the requirements for the Bachelor of Science in Computer Engineering, graduates from this program must also achieve the following educational outcomes:

- an ability to apply knowledge of mathematics, science, and engineering
- an ability to design and conduct experiments, as well as to analyze and interpret data
- an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- an ability to function independently and on teams
- an ability to identify, formulate, and solve engineering problems
- an understanding of professional, ethical, and safety considerations
- an ability to communicate effectively, both orally and in writing
- the broad education necessary to understand the impact of engineering solutions in a global, environmental, and societal context
- a recognition of the need for, and an ability to engage in life-long learning
- a knowledge of contemporary issues through a broad liberal arts education
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
- an ability to think critically as evidenced by skills in interpretation, analysis, evaluation, inference, argumentation, and reflection
- an understanding of principles of construction of computing systems
- an understanding of abstraction and refinement of computing systems
- an ability to predict and reason about design correctness and performance of computing systems
- an ability to use methods and practices to design correct and reliable computing systems
- an ability to test and verify that computing systems are correct and reliable

PROGRAM COMPONENTS

The computer engineering program has four fundamental components: mathematics and sciences, engineering, social sciences and humanities, and general education. Within each component, a liberal number of courses have been set aside as electives in order to allow students, with the guidance of their advisors, to customize their education according to their personal and career objectives. A summary of required and elective credits within each component is as follows:

Math and Science 33 required, 0 elective, 33 total credits;
Engineering Education 48 required, 0 elective, 48 total credits;
Technical Electives 0 required, 15 elective, 15 total credits;
General Education 12 required, 9 elective, 21 total credits;
Social Science and Humanities 6 required, 6 elective, 12 total credits;
Total credits 129

ELECTIVE COURSES

In order to maximize the flexibility of the computer engineering curriculum, while maintaining its structure, electives have been divided into the following categories.

Technical Electives

Students fulfill 15 credits of technical electives by completing at least one of the tracks specified below. Each track is completed by taking at least 15 credit hours of courses specified by the track:

Hardware Systems (HWS) Track

Students must take the following courses:

CSE 464 Introduction to VLSI Design
 CSE 561 Digital Machine Design
 CSE 565 Digital Design Test and Verification

Students select at least one of the following courses:

CSE 471 Introduction to Embedded System Design
 CSE 591 Topics in Computer Systems Engineering: Topics Related to Hardware
 CIS 483 Introduction to Computer and Network Security
 CIS 543/ELE 516 Control of Robots
 ELE 333 Analog Circuits
 ELE 346 Semiconductor Devices
 ELE 351 System and Signal Analysis
 ELE 424 Fundamentals of RF and Microwaves
 ELE 431 Analog Circuits and Systems

Students select at least one technical course, 300-level or above, from the Department of EECS or from the Department of Mathematics

Software Systems (SWS) Track

Students must take the following courses:

CIS 453 Software Specification and Design
 CIS 454 Software Implementation

Students select at least two of the following courses:

CSE 482 Principles of Software Engineering
 CSE 483 Windows Programming
 CSE 581 Introduction to Database Management Systems
 CSE 588 Translator Design
 CSE 591 Topics in Computer Systems Engineering: Topics Related to Software
 CIS 352 Programming Languages: Theory and Practice
 CIS 373 Introduction to Automata Theory
 CIS 400 Introduction to Computer Security
 CIS 401 Multimedia Systems and Tools
 CIS 425 Introduction to Computer Graphics
 CIS 467 Introduction to Artificial Intelligence
 CIS 473 Logic and Computability Theory
 CIS 500 Programming in Java 5.0
 CIS 543/ELE 516 Control of Robots
 CIS 581 Concurrent Programming

Students select at least one technical course, 300-level or above, from the Department of EECS or from the Department of Mathematics.

Hardware/Software Systems (HSS) Track

Students must take the following courses:

CIS 454 Software Implementation
CIS 464 Introduction to VLSI Design
CSE 561 Digital Machine Design
CSE 565 Digital Design Test and Verification

Interdisciplinary (INT) Track

Reason: To allow students who are pursuing a minor or a second major to take more courses outside of the Department of EECS.

Requirements to complete this track:

- Student must be awarded a minor or a second major in a discipline outside of the Department of EECS, excluding a minor in mathematics*;
- Student may substitute up to 9 credits of technical elective courses to fulfill this minor or second major;
- All of the remaining credit hours (six or more) of technical electives must be taken from one of the following tracks:
 - Hardware Systems (HWS) Track: In this case, student needs to take at least two core courses of the HWS Track if the remaining number of credits of technical electives the student must fulfill is 6 credits, or all the core courses of this track if the remaining number of credits of technical electives required is more than 6;
 - Software Systems (SWS) Track: In this case, student needs to take at least all the core courses of the SWS Track.

The Computer Engineering Program Committee will determine if a specific CSE 591 course can be used to fulfill one of the tracks.

- Students can fulfill the requirements for a minor in mathematics within 129 credit hours required by the BSCE program if they opt to fulfill the Hardware Systems Track, the Software Systems Track, or the Hardware/Software Systems Track.

Social Sciences and Humanities Electives

This 6-credit requirement may be fulfilled by any combination of courses listed in the social sciences division or humanities division of the College of Arts and Sciences.

Non-Engineering/Computer Science Electives

The purpose of this 9-credit requirement of non-engineering/computer science elective courses is to provide students with a broad educational experience in a diversity of subjects. These elective courses—either by themselves or in combination with social science and humanities electives—present an attractive opportunity to complete one of the many non-technical minors offered in the University.

Courses that cannot be used to satisfy this requirement include technical courses offered by (or crosslisted with) the L.C. Smith College of Engineering and Computer Science (ECS), remedial math courses, and courses with engineering or computer science content that are taught by academic units outside of ECS. A complete list of non-conforming courses appears in the Computer Engineering Undergraduate Student Handbook.

Note that you cannot take CIS 554 – Object-Oriented Programming in C++, to fulfill any requirement in Computer Engineering undergraduate program. This is because a considerable amount of material covered in this course overlaps with the material covered in the core course CSE 283 – Introduction to Object-Oriented Design.

Note that CPS courses cannot be taken to fulfill any of the requirements for the Computer Engineering undergraduate program. These courses are designed for non-majors in Computer Engineering or in Computer Science.

Program of Study

First Year, Fall Semester (17)

ECS 101 Introduction to Engineering and Computer Science (3)
MAT 295 Calculus I (4)
CHE 106 General Chemistry (3)
CHE 107 General Chemistry Lab (1)
WRT 105 Studio 1: Practices of Academic Writing (3)
PHI 251 Logic (3)

First Year, Spring Semester (17)

ECS 102 Introduction to Computing (3)
MAT 296 Calculus II (4)
PHY 211 General Physics I (3)
PHY 221 General Physics Lab I (1)
Social science/humanities elective (3)
Non-engineering/computer science elective (3)

Second Year, Fall Semester (18)

CIS 275 Introduction to Discrete Mathematics (3)
MAT 397 Calculus III (4)
PHY 212 General Physics II (3)
PHY 222 General Physics Lab II (1)
ELE 231 EE Fundamentals I (3)
ELE 291 EE Lab I (1)
CSE 283 Introduction to Object-Oriented Design (3)

Second Year, Spring Semester (16)

MAT 521 Introduction to Problems and Statistics* (3)
ELE 232 EE Fundamentals II (3)
ELE 292 EE Lab II (1)
CSE 261 Digital Logic Design (3)
WRT 205 Studio 2: Critical Research and Writing (3)
CSE 382 Algorithms and Data Structure (3)

Third Year, Fall Semester (15)

CSE 281 Computer Organization and Assembly Language (3)
CSE 397 Computer Lab I (3)
ELE 331 Digital Circuits and Systems (3)
MAT 485 Differential Equations and Matrix Algebra (3)
Social science/humanities elective (3)

Third Year, Spring Semester (15)

ECS 392 Ethical Aspects of ECS (3)
ELE 458 Data Networks: Basic Principles (3)
CSE 381 Computer Architecture (3)
CSE 398 Computer Lab II (3)
WRT 307 Advanced Writing Studio: Professional Writing (3)

Fourth Year, Fall Semester (15)

CSE 497 Senior Design Project (3)
CSE 486 Design of Operating Systems (3)
Technical electives (6)
Non-engineering/computer science elective (3)

Fourth Year, Spring Semester Credits (16)

CSE 497 Senior Design Project (1)
WRT 407 Advanced Workshop in Prof., Technical, or Disciplinary Writing (3)
Technical Electives (9)
Non-engineering/computer science elective (3)

Total 129

*CIS 321 Introduction to Probability and Statistics (4 credits) may be substituted if a student does not want to pursue a mathematics minor.

MINORS

The computer engineering curriculum is flexible enough to allow a student to complete minors without taking additional credits or by taking only a few extra courses. Today's computer engineers work in an environment where they are expected to know not only computer hardware and software, but also material from a collection of other subject areas—from device technology or computer science to management and how computers affect the world. The computer engineering curriculum responds to this need by providing students with a strong basis in the fundamentals of computer engineering coupled with additional courses drawn from electrical engineering and computer science. There is also an opportunity to broaden the scope of a student's education.

Minor in electrical engineering (EE)

Students majoring in computer engineering are required to take 11 credits of EE courses independent of the track the students are completing. By taking 9 additional credits of 300-level or above EE courses, a student can earn a minor in EE. Of these 9 credits, 6 are to be taken in addition to the 129 credits required by the computer engineering curriculum, unless students are completing the Interdisciplinary Track. In this case, students must take all 9 credits in addition to the 129 credits required by the degree.

Non-technical minor

A student who would like to complete a non-technical minor has 6 credits of social sciences and humanities electives and 9 credits of non-engineering/computer science electives, which can be used toward any one of more than 70 minors offered at Syracuse University. Since these minors usually require 18 credits, students need to take (depending on the minor) 3 to 9 credits beyond the 129 credits required by the computer engineering program, unless students are completing the Interdisciplinary Track. In this case, students do not need to take any credit beyond the 129 credits to complete this minor.

Minor in mathematics

The computer engineering curriculum requires students to take 21 credits of courses from the mathematics department. This does not quite meet the requirements of a mathematics minor. To complete a minor in mathematics, students must take two math courses, either MAT 331 or MAT 485, and either MAT 525 or MAT 526. These two courses can be taken as non-engineering/computer science electives. Therefore, students may complete a minor in mathematics within the minimum 129 credits required by the computer engineering program.

Computer Engineering Minor

Minor Coordinator - C.Y. Roger Chen, 4-133 Center for Science and Technology, 315-443-4179, crchen@syr.edu

The minor in computer engineering (18 credits) must include the following courses:

ECS 102 Introduction to Computing
CSE 261 Digital Logic Design
CSE 281 Computer Organization and Assembly Language
CSE 283 Introduction to Object-Oriented Design
CSE 381 Computer Architecture
CSE 382 Algorithms and Data Structures

Computer Science

Program Director Jae C. Oh, 4-283 Center for Science and Technology, 315-443-4740, Fax 315-443-2583; jcoh@syr.edu.

Faculty Ercument Arvas, Howard A. Blair, Steven J. Chapin, Biao Chen, C.Y. Roger Chen, Hao Chen, Shiu-Kai Chin, Wenliang (Kevin) Du, Mahmoud El Sabbagh, Ehat Ercanli, Makan Fardad, James W. Fawcett, Prasanta Ghosh, Amrit L. Goel, Carlos R.P. Hartmann, Can Isik, Kaveh Jokar Deris, Philipp Kornreich, Andrew Lee, Jay Kyoon Lee, Yingbin Liang, Duane L. Marcy, Kishan G. Mehrotra, James Michels, Chilukuri K. Mohan, Ruixin Niu, Jae C. Oh, Susan Older, Lisa Osadciw, Daniel J. Pease, Leonard J. Popyack Jr., James S. Royer, Tapan K. Sarkar, Ernest Sibert, Q. Wang Song, Pramod K. Varshney, Hong Wang, Heng Yin

The mission of the computer and information science programs is to assist students to be ready for work and ready for change. This means preparing students to make professional contributions to computer and information science immediately upon graduation and throughout their professional careers, and to adapt to technological and societal changes.

The educational objective of the Bachelor of Science in Computer Science (BSCS) program in the Department of Electrical Engineering and Computer Science (EECS) at Syracuse University are to prepare graduates who:

- are known by their professional competence, innovative thinking, ability to work individually and in diverse teams, leadership abilities, communication skills, and integrity.
- are engaged in applying the knowledge acquired in their major, combined with their problem solving abilities, to produce feasible solutions to problems, in a timely manner, which are deemed important in industry, government, or academia.
- exhibit the intellectual flexibility necessary to solve new problems in innovative ways by integrating multiple viewpoints in search of the best possible solutions.

The Bachelor of Science in Computer Science degree at Syracuse University is accredited by the Computing Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, 410-347-7700.

The programs in computer science prepare professionals who will adapt to constant changes in technology and who will be leaders in developing the new technologies of the Information Age. The multidisciplinary nature of the curricula offers students a high degree of flexibility to design a program of study tailored to their interests and professional aspirations.

Computer science focuses on programming, algorithms, large-scale software development, and the principles of computing that underlie these areas. Syracuse's program weaves together an emphasis on fundamental principles with new developments in computing, producing graduates prepared either to begin careers or to pursue advanced studies in the field.

Graduates of the Syracuse University bachelor of science in computer science program achieve the following outcomes:

- ability to apply knowledge of computing and mathematics appropriate to the discipline—in particular, students should be able to apply this knowledge in a way that demonstrates comprehension of the tradeoffs involved in modeling, design, and development of software systems of various scales and complexity
- ability to analyze a problem, and identify and define computing requirements appropriate to its solution
- ability to function effectively on teams to accomplish common goals
- understanding of professional, ethical, legal, security, and social issues and responsibilities
- ability to communicate effectively
- ability to analyze the local and global impact to computing on individuals, organizations, and society
- recognition of the need for lifelong learning and an ability to engage in the same
- ability to use current techniques, skills, and tools necessary for computing practice
- ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices
- ability to apply design and development principles in the construction of software systems of varying complexity

Distribution and Core Requirements

The programs are divided into a general education section, a mathematics section, and a major section.

GENERAL EDUCATION SECTION.

Completion of the general education section requires at least 51 credits of coursework, as follows. Each student is required to complete 6 credits of writing (WRT 105, 205) and 3 credits in presentational skills by taking at least one course out of the following: CRS 225 Public Advocacy, CAS/CRS 325 Presentational Speaking, IST 444 Information Reporting and Presentation. The student is further required to complete 12 credits of natural sciences and engineering including PHY 211/221 (see exclusions in the Undergraduate Student Handbook). These 12 credits must include a two-semester sequence in a laboratory science. The student is required to complete an additional 15 credits in social science and humanities (SS/H) courses offered by the College of Arts and Sciences or by the College of Visual and Performing Arts. In addition, the student is required to take PHI 251 and ECS 392 or equivalent.

Finally, each student has 9 credits of free electives. This requirement can be satisfied by any courses except for CPS courses intended for non-majors. A list of such courses can be obtained from the CIS program office.

MATHEMATICS SECTION

The mathematics section requires at least 15 credits of math. The student must take MAT 295, 296, either 397 or 331, and CIS 321.

MAJOR SECTION

The major section consists of ECS 101 Introduction to Engineering and Computer Science, ECS 102 Introduction to Computing, the 33-credit computer science core (listed below), and an 18-credit option in computer science.

Computer Science Core

- CIS 252 Introduction to Computer Science
- CIS 275 Introduction to Discrete Mathematics
- CIS 341 Computer Organization and Programming Systems
- CIS 351 Data Structures
- CIS 352 Programming Languages: Theory and Practice
- CIS 453 Software Specification and Design
- CIS 454 Software Implementation
- CIS 473 Computability Theory
- CIS 477 Introduction to Analysis of Algorithms
- CIS 486 Design of Operating Systems

Students are required to meet academic standards as follows: no grade below C- will satisfy the requirements for 6 credits of writing, for the mathematics section, and for the major section. The computer science core must be completed with a B (3.0) average.

The B.S. degree in computer science requires at least 123 credits, including satisfactory completion of the general education and mathematics sections; computer science core requirements; and 18 credits, with grades of C- or better, in technical electives chosen from the following listing. At least 9 credits of

the upper division technical electives must be in computer science.

Arts and Sciences
PHI 378 Minds and Machines
PHI 551 Symbolic Logic
PHI 552 Modal Logic
PHI 460/660 Topics in Logic and the Foundations of Mathematics

Students may also choose any mathematics courses numbered above 400, unless specifically excluded.

Computer and Information Science
CIS 390 Honors Seminar in Computer and Information Science
CIS 400 Selected Topics

CIS 425 Introduction to Computer Graphics
CIS 428 Introduction to Cryptography
CIS 467 Introduction to Artificial Intelligence
CIS 471 Optimization Methods
CIS 478 Introduction to Quantum Computing
CIS 483 Introduction to Computer and Network Security
CIS 531 Compiler Construction
CIS/MAT 545 Finite Mathematics
CIS 543 Control of Robots
CIS 553 Software Systems Implementation
CIS 554 Object-Oriented Programming of Abstract Structures in C++
CIS 558 Data Networks: Basic Principles
CIS 565 Introduction to Artificial Neural Networks
CIS 567 Knowledge Representation and Reasoning
CIS 581 Concurrent Programming
CIS 583 Systems Assurance Seminar
CIS 668 Natural Language Processing

Students may also choose any CIS courses numbered above 300, unless specifically excluded. The courses listed above are particularly recommended.

Engineering
CSE 397 Computer Laboratory I
CSE 398 Computer Laboratory II
CSE 483 Windows Programming
CSE 561 Digital Machine Design
CSE 566 Information Display Devices and Techniques
CSE 572 Switching Theory and Sequential Machine Design
CSE 581 Introduction to Database Management Systems

Representative Program of Study

First Year, Fall Semester (16)
ECS 101 Introduction to Engineering and Computer Science (3)
ECS 102 Introduction to Computing (3)
MAT 295 Calculus I (4)
WRT 105 Studio 1: Practices of Academic Writing (3)
SS/H* elective (3)

First Year, Spring Semester (15)
CIS 252 Introduction to Computer Science (4)
MAT 296 Calculus II (4)
PHI 251 Logic (3)
PHY 211/221 General Physics/General Physics Laboratory (4)

Second Year, Fall Semester (13-14)
CIS 275 Introduction to Discrete Mathematics (3)
CIS 341 Computer Organization and Programming Systems (3)
CIS 351 Data Structures (4)
MAT 397 Calculus III or (4)
MAT 331 First Course in Linear Algebra (3)

Second Year, Spring Semester (18)
CIS 321 Introduction to Probability and Statistics (4)
CIS 352 Programming Languages: Theory and Practice (4)
WRT 205 Studio 2; Critical Research and Writing (3)
Science elective (4)
SS/H elective (3)

Third Year, Fall Semester (16)
CIS 453 Software Specification and Design (3)
CIS 477 Introduction to Analysis of Algorithms (3)
Upper-Division Elective (3)
English elective Presentation Skills Elective (3)
SS/H elective (4)

Third Year, Spring Semester (15)

CIS 473 Computability Theory (3)
CIS 454 Software Implementation (3)
CIS 486 Software Implementation (3)
Presentational skills elective SS/H Elective (3)
Free elective (3)

Fourth Year, Fall Semester (15)
Upper-division course (3)
Upper-division course (3)
Free elective (3)
ECS 392 Ethical Aspects of Engineering and Computer Science (3)
SS/H elective (3)

Fourth Year, Spring Semester (15)
Upper-division course (3)
Upper-division course (3)
Upper-division course (3)
Free elective (3)
SS/H electives (3)

*Students wishing to preserve the option of transferring to an engineering major at the end of the first semester should take CHE 106/107 in place of SS/H elective.

INTRA-UNIVERSITY TRANSFER

Students who wish to transfer into any program within the College of Engineering and Computer Science from another school or college within the University should have a strong record of achievement and demonstrated success in key technical courses. Specifically, it is critical for the applicant to have proven their ability to excel in college-level calculus (by completing at least one of MAT 295, 296, or 397 with a grade of B- or better) and science (by completing at least one set of PHY 211/221 or CHE 106/107 with a grade of B- or better). Students who wish to major in computer science must also complete CIS 252 with a grade of at least a B.

Combined Degree Program

Contact Jae C. Oh, Program Director, 4-283 Center for Science and Technology, 315-443-4740, Fax 315-443-2583; jcoh@syr.edu.

B.S. AND M.S. IN COMPUTER SCIENCE

This combined degree program is offered for the student who wants to complete consecutively the bachelor's and master's degrees in computer science. The combined degree program is designed to be completed in five years, with the student taking two master's degree courses in the senior year. One graduate course may be counted towards both the bachelor's and the master's degrees, so that the two degrees together require at least 150 credits. The student is normally certified for the bachelor's degree at the end of the fourth year and for the master's degree at the end of the fifth year.

Admission to the combined degree program, normally requested during the second semester of the junior year, is based on academic performance.

Computer Science Minor

Minor Coordinator - Jae Oh, 4-283 Center for Science and Technology, 315-443-4740, jcoh@syr.edu.

The minor in computer science requires the completion of 18 credits (five or six courses) in CIS courses with an overall grade point average of at least 2.5, and with no individual course grade below C-. These 18 hours must include CIS 252 and CIS 351, and at least 12 credits must come from courses numbered 300 or greater. All courses must be intended for CIS majors.

Electrical Engineering

Program Director Qi Wang Song, 335A Link Hall, 315-443-1516, Fax: 315-443-4441; qwsong@syr.edu.

Faculty Ercument Arvas, Howard A. Blair, Steven J. Chapin, Biao Chen, C.Y. Roger Chen, Hao Chen, Shiu-Kai Chin, Wenliang (Kevin) Du, Mahmoud El Sabbagh, Ehat Ercanli, Makan Fardad, James W. Fawcett, Prasanta Ghosh, Amrit L. Goel, Carlos R.P. Hartmann, Can Isik, Kaveh Jokar Deris, Philipp Kornreich, Andrew Lee, Jay Kyoon Lee, Yingbin Liang, Duane L. Marcy, Kishan G. Mehrotra, James Michels, Chilukuri K. Mohan, Ruixin Niu, Jae C. Oh, Susan Older, Lisa Osadciw, Daniel J. Pease, Leonard J. Popyack Jr., James S. Royer, Tapan K. Sarkar, Ernest Sibert, Q. Wang Song, Pramod K. Varshney, Hong Wang, Heng Yin

The mission of the electrical engineering program is to assist students to be ready for work and ready for change. This means preparing students to make professional contributions to electrical engineering immediately upon graduation and throughout their professional careers, and to adapt to technological and societal changes.

The educational objective of the bachelor of science in electrical engineering (BSEE) program in the Department of EECS at Syracuse University is to prepare well-rounded graduates that are ready for work and ready for change.

- Well-rounded graduates of the BSEE program are known by their professional competence, innovative thinking, ability to work individually and in diverse teams, leadership abilities, communication skills, and integrity.
- Graduates of the BSEE program who are ready for work are engaged in applying the knowledge acquired in their major, combined with their problem solving abilities, to produce feasible solutions to problems, in a timely manner, which are deemed important in industry, government, or academia.
- Graduates of the BSEE program who are ready for change exhibit the intellectual flexibility necessary to solve new problems in innovative ways by integrating multiple viewpoints from several disciplines in search of the best possible solutions.

Electrical engineering is based on scientific principles governing the motion of charged particles through conductors, semiconductors, or even a vacuum. These phenomena can be harnessed in a variety of applications such as in the treatment of disease, optical, satellite, and computer communications, control of robots, radio and television broadcasting, and development of microelectronics for computers and analog circuits.

This program is accredited by the Accreditation Board for Engineering and Technology.

Engineering design is taught in each of the four years of the electrical engineering program. Beginning with ECS 101 in the first year, students are required to formulate solutions to a variety of open-ended laboratory projects. As the students progress through their sophomore and junior years, the projects increase in complexity requiring additional creativity and knowledge. Finally, in the senior year the students are required to complete a major design project that builds upon their mastery of the fundamental concepts of mathematics, basic sciences, the humanities and social sciences, engineering topics, and communication skills.

In addition to successfully completing the requirements for the bachelor of science in electrical engineering, graduates from this program must also achieve the following educational outcomes:

- an ability to apply knowledge of mathematics and science.
- an ability to design and conduct experiments, analyze and interpret data.
- an ability to design systems to meet specifications.
- an ability to function independently and on teams.
- an ability to identify, formulate, and solve engineering and scientific problems.
- an understanding of professional, ethical, and safety considerations.
- an ability to communicate effectively, both orally and in writing.
- an understanding of the role of science and engineering in society.
- a recognition of the necessity of lifelong learning.
- an understanding of contemporary issues through a broad liberal arts education.
- an ability to use the modern tools necessary for professional practice.
- an ability to think critically as evidenced by skills in interpretation, analysis, evaluation, inference, argumentation, and reflection.
- an understanding of the concept and process of modeling of electrical systems.
- the ability to design and conduct experiments in electrical systems as well as to analyze and interpret data.
- the ability to design a system, component, or process to meet desired needs of electrical systems.
- the ability to identify, formulate, and solve electrical engineering problems.

Program Components

The electrical engineering program has four fundamental components: mathematics and sciences, engineering, social sciences and humanities, and general education. Within each component, a number of courses have been set aside as electives in order to allow students, with the guidance of their advisors, to customize their education according to personal and career objectives. A summary of required and elective credits within each component follows:

Mathematics and Science 30 required, 3 elective, 33 total credits;

Engineering 51 required, 12 elective, 63 total credits;

Social Science and Humanities 3 required, 9 elective, 12 total credits;

General Education 12 required, 6 elective, 18 total credits;

Free 6 elective, 6 total credits;

Overall 84 required, 48 elective, 132 total credits.

Elective Courses

In order to maximize the flexibility of the EE curriculum while maintaining its structure, electives have been divided into the following categories.

Technical Electives

Tracks of specialization (described in sequel) and minors are used to regulate technical electives. A student must complete four technical elective courses in electrical engineering (EE) or computer engineering (CE). At a minimum, two of these courses must complete one EE track. A student with an engineering and computer science (ECS) technical minor needs to complete only one EE track (two elective courses). If a student chooses to complete two tracks, there are 12 credits of elective courses in technical areas. If a student chooses to complete one EE track and a technical ECS minor, the technical electives are increased to 21 credits. Courses that are not required for students who complete a technical minor or a technical second major are marked with a "*" in the curriculum table (ELE 346, 325, and 312).

Mathematics and Sciences Elective

This 3-credit elective may be fulfilled by any mathematics course with a calculus prerequisite, any physics course with a calculus-based physics prerequisite, or any college-level course in other science departments. By taking an appropriate math course, EE students can use this elective to complete a minor in mathematics.

Social Sciences and Humanities Electives

This 9-credit requirement may be fulfilled by any combination of courses listed in the social sciences division or humanities division of the College of Arts and Sciences.

General Education Electives

This 6-credit requirement may be fulfilled by any combination of courses that do not have technical engineering or computer science content. These courses, either by themselves or in combination with social sciences and humanities electives and free electives, present a very attractive opportunity to complete one of the many non-technical minors offered in the University.

Free Electives

This 6-credit requirement may be fulfilled by any combination of college-level courses, for example, to help fulfill the requirements of a technical or a non-technical minor.

Tracks

Tracks are intended to provide a cohesive set of technical electives for EE students. A track consists of a sequence of two senior-level elective courses and their appropriate prerequisites. The following are some example of tracks in EE. Actual composition of tracks are maintained by the EE program committee.

VLSI Track

ELE 331 Digital Circuits and Systems (3)

*ELE 346 Semiconductor Devices (3)

ELE/CSE 464 Introduction to VLSI Design (3)

ELE 541 Integrated Circuits (3)

Electromagnetics Track

ELE324 Electromagnetics I (3)
*ELE 325 Electromagnetics II (3)
ELE 424 Fundamentals of Radio Frequencies and Microwaves (3)
and one of the following:
ELE 425 Microwave Engineering (3)
ELE 425 Electromagnetic Compatibility (3)
ELE 524 Introduction to Applied Optics (3)

Communications Track

ELE 351 System and Signal Analysis (3)
ELE 352 Digital Signal Processing (3)
and two of the following:
ELE 551 Communication Systems (3)
ELE 558 Data Networks: Basic Principles (3)
ELE 591 Special Problems in Electrical Engineering (3)

Program of Study*First Year, Fall Semester (17)*

ECS 101 Introduction to ECS I (3)
CHE 106 Chemistry I (3)
CHE 107 Chemistry Lab I (1)
MAT 295 Calculus I (4)
WRT 105 Studio 1: Practices of Academic Writing (3)
SS/H elective (3)

First Year, Spring Semester (17)

ECS 102 Introduction to ECS II (3)
MAT 296 Calculus II (4)
PHY 211 Physics I (3)
PHY 221 Physics Lab I (1)
SS/H elective (3)
Non-technical elective (3)

Second Year, Fall Semester (15)

PHY 212 Physics II (3)
PHY 222 Physics II Lab (1)
ELE 231 EE Fundamentals I (3)
ELE 291 EE Lab I (1)
MAT 397 Calculus III (4)
SS/H elective (3)

Second Year, Spring Semester (16)

MAT 485 Differential Equations and Matrix Algebra (3)
WRT 205 Studio 2: Critical Research and Writing (3)
ELE 232 EE Fundamentals II (3)
ELE 292 EE Lab II (1)
*ELE 346 Semiconductor Devices (3)
CSE 261 Digital Logic Design (3)

Third Year, Fall Semester (18)

ELE 331 Digital Circuits (3)
ELE 391 Digital Circuits Lab (3)
ELE 351 System and Signal Analysis (3)
ELE 324 Electromagnetics I (3)
†MAT 521 Introduction to Probability and Statistics (3)
WRT 307 Advanced Writing Studio: Professional Writing (3)

Third Year, Spring Semester (18)

ELE 333 Analog Circuits (3)
*ELE 325 Electromagnetics II (3)
ELE 392 Analog Circuits Lab (3)
Free elective (3)
Select two of the following three courses:
ELE 352 Digital Signal Processing (3)
*ELE 312 Control Systems (3)
ELE 424 Fundamentals of Radio Frequencies and Microwaves (3)

Fourth Year, Fall Semester (15)

WRT 407 Advanced Workshop in Professional, Technical, (3)
or Disciplinary Writing
ELE 497 Senior Design Project (3)
Technical elective (6)
ECS 392 Ethical Aspects of ECS (3)

Fourth Year, Spring Semester (16)

ELE 497 Senior Design Project (1)
Technical elective (6)
Math/Science elective (3)
Non-technical elective (3)

Free elective (3)

Total 132

*These courses may be replaced with technical electives by students who choose to complete an ECS technical minor.

†CIS 321 Introduction to Probability and Statistics (4 credits) can be substituted if a student does not want a mathematics minor.

MINORS

The electrical engineering curriculum is flexible enough to allow a student to complete up to three minors. Today's engineers work in an environment where they are expected to know not only their specialty areas, but also a collection of other subject areas—from computers to finance. The EE curriculum responds to this need by providing students with a strong basis in the fundamentals of electrical engineering, coupled with an opportunity to broaden the scope of their education. An electrical engineering student may complete one or all of the following types of minors within the normal limits of the curriculum.

Engineering and computer science minor

A student who wishes to complete a technical minor offered by the college has up to 27 credits of electives distributed from the second year through the fourth year. Twelve of those credits are labeled as technical electives in the following curriculum. Nine of them are credits from the three courses marked by an asterisk, ELE 346, 325, and 312, which are not required for students who choose to complete an ECS technical minor. The remaining 6 credits are from free electives.

Non-technical minor

A student who would like to complete a non-technical minor has 9 credits of social sciences and humanities electives and 6 credits of free electives in addition to 9 credits of general education electives, which can be used toward any one of more than 70 minors offered at Syracuse University.

Minor in mathematics

Electrical engineering curriculum requires students to take 18 credits of courses from the mathematics department. With the 3-credit mathematics and sciences elective course also taken appropriately from that department, a minor in mathematics can be earned.

Electrical Engineering Minor

Minor Coordinator - Qi Wang Song, 335A Link Hall, 315-443-1516, qwsong@syr.edu.

Academic Requirements

The minor in electrical engineering (EE) (20 credits) is available to any Syracuse University student who has the appropriate prerequisites such as calculus and calculus-based physics. Students must complete 8 credits of required sophomore courses shown below and 12 credits of junior- or senior-level elective courses offered by the electrical engineering program. Students may choose the elective courses to give them a breadth of coverage or complete a track* in a specific concentration area as described in the catalog.

ELE 231 EE Fundamentals I	3	
ELE 291 EE Lab I	1	
ELE 232 EE Fundamentals II	3	
ELE 292 EE Lab II	1	
ELE EE Junior or senior courses	12	20

*Tracks are intended to provide a cohesive set of technical electives for EE students. A track consists of a sequence of two senior-level elective courses and their appropriate prerequisites. The current examples of tracks in EE are all 12 credits. More information can be found in the EE curriculum description.

Energy Systems Minor

Minor Coordinator - Frederick Carranti, 247 Link Hall, 315-443-4346, carranti@syr.edu.

This minor option will provide students enrolled in the Mechanical Engineering B.S. program with a grouping of courses/ electives that will provide academic depth in the field of energy related systems, especially as related to building energy and environmental systems.

Requirements

Admission to the energy systems minor is by permission of an academic advisor and requires students to be enrolled in the B.S. in mechanical engineering program.

Course Requirements

The following courses must be taken in place of some elective courses in the current B.S.M.E. curriculum. Total credits for degree remains unchanged.

ECN 203 Economic Ideas and Issues

MAE 551 Energy Conversion

MFE 548 Engineering Economics

Two energy systems electives selected from:

MAE 552 Building Environmental Measurements and Controls

MAE 553 HVAC Systems Design and Analysis

MAE 554 Principles of Refrigeration

MAE 585 Principles of Turbomachinery

Other To be announced

Three social sciences/humanities electives and one free elective

In addition, MEE 471/472 Synthesis of Mechanical Systems I,II, must involve an "energy related" design project.

Engineering & Computer Sci Mgt

Minor Coordinator Engineering - Frederick Carranti, 247 Link Hall, 315-443-4346, carranti@syr.edu.

Minor Coordinator Management - Dawn Kline, 215 Whitman School of Management, 315-443-4356, dkline@syr.edu.

This minor is designed to provide LCS students with a relevant non-technical minor. It is open to all SU students with approval of their home college. The requirements are

ECS 391 Legal aspects of LCS
ECS 392 Ethical Aspects of LCS

Two upper-level management courses selected from the following:

EEE 370 Introduction to Entrepreneurship
EEE 382 Entrepreneurial Marketing
EEE 451 Finance for Emerging Enterprises
FIN 301 Finance for Non-Business Students
LPP 458 Environmental Law and Public Policy
SHR 355 Introduction to Human Resource Management

Two courses selected from the following:

ACC 201 Introduction to Accounting for Non-Management Students
ECN 203 Economic Ideas and Issues
MAR 301 Marketing for Non-Management Students
SHR 247 Strategy and Leadership

Environmental Engineering

Interim Chair and Program Director Chris E. Johnson, 151 Link Hall, 315-443-2311.

Full-time Faculty Andria Costello Staniec, Cliff I. Davidson, Charles T. Driscoll Jr., Chris E. Johnson, Raymond D. Letterman Adjunct Faculty S.W. Kaczmar, E.M. Owens Jr., S. Santanam, D. Wazenkewitz.

The mission of the civil and environmental engineering department is to promote learning and the creation, dissemination, and application of knowledge in civil and environmental engineering through integration of teaching, scholarship, and service.

The goal of the civil and environmental engineering department is to prepare students for engineering practice, advanced study, and lifelong learning in civil and environmental engineering. Graduates are expected to be proficient in the fundamentals of engineering analysis and design and to understand the importance and methods of effective communication. Students are encouraged to use the extensive educational resources of Syracuse University and the Syracuse community to broaden and enhance the quality of their university education.

The educational objectives of the environmental engineering program are to graduate students who:

- can apply technical knowledge and problem-solving skills to advance their careers and serve the community;
- are prepared for engineering practice and advanced studies in environmental engineering;
- will engage in life-long learning to keep themselves abreast of new developments in their fields of practice or study; and
- are capable of effective written and oral communications.

Our program outcomes are in line with those identified by the Accreditation Board for Engineering and Technology (ABET 2000 a-k), i.e., at the time of their graduation, our students should acquire:

- an ability to apply knowledge of mathematics, science, and engineering
- an ability to design and conduct experiments, as well as to analyze and interpret data
- an ability to design a system, component, or process to meet desired needs within realistic constraints
- an ability to function on multidisciplinary teams
- an ability to identify, formulate, and solve engineering problems
- an understanding of professional and ethical responsibility
- an ability to communicate effectively
- the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- a recognition of the need for, and an ability to engage in life-long learning
- a knowledge of contemporary issues
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

The B.S. degree program in environmental engineering emphasizes the application of engineering science to the preservation and management of the environment. It provides a strong background in the basic and engineering sciences and a variety of courses in several environmental areas, including water and wastewater treatment, solid and hazardous waste management, air pollution control, transport and fate of pollutants, and environmental chemistry and microbiology. The program allows students to pursue a series of elective courses suited to individual interests and goals, as well as to obtain minors in a variety of subject areas.

Adjustments in the program can be made to accommodate transfer students from accredited two- and four-year institutions so they may develop their programs of study as soon after admission as possible.

ENVIRONMENTAL ENGINEERING

Mathematics (15) Credits
MAT 295 Calculus I (4)
MAT 296 Calculus II (4)
MAT 397 Calculus III (4)
MAT 485 Differential Equations and Matrix Algebra (3)

Sciences (20)
CHE 106 General Chemistry I (3)
CHE 107 General Chemistry Lab I (1)
CHE 116 General Chemistry II (3)

CHE 117 General Chemistry Lab II (1)
PHY 211 General Physics I (3)
PHY 221 General Physics Lab I (1)
EAR 203 Earth System Science (4)
GEO 383 Geographic Information System (4)

English/Social Science/Humanities (24)
WRT 105 Studio 1: Practices of Academic Writing (3)
WRT 205 Studio 2: Critical Research and Writing (3)
Social Science/Humanities Electives (18)

Engineering (16/17)
ECS 101 Introduction to Engineering and Computer Science (3)
ECS 221 Statics (3)
ECS 325 Mechanics of Solids (4)
ERE 441 Air Pollution Engineering (3)
Select one of the following five courses:
ECS 222 Dynamics (3)
ECS 326 Engineering Materials (3)
ELE 231 Electrical Engineering Fundamentals I (3-4)
MAE 251 Thermodynamics (4)
CHE 346 Physical Chemistry (3)

Environmental Engineering (41)
CIE 272 Civil and Environmental Engineering Measurements (3)
CIE 274 Civil and Environmental Engineering Systems (3)
CIE 327 Fluid Mechanics (4)
CIE 337 Introduction to Geotechnical Engineering (4)
CIE 341 Introduction to Environmental Engineering (3)
CIE 352 Water Resources Engineering (4)
CIE 442 Treatment Processes in Environmental Engineering (4)
CIE 471 Environmental Chemistry and Analysis (3)
CIE 472 Applied Environmental Microbiology (3)
CIE 475 Capstone Design (4)

Technical Electives (6)
Professional Electives (9)
Free electives (3)

Total 128/129

Mechanical Engineering

Program Director Alan J. Levy, 263 Link Hall, 315-443-4365.

Faculty Edward A. Bogucz Jr., Frederick Carranti, Thong Dang, John F. Dannenhoffer, Barry D. Davidson, Mark N. Glauser, Hiroshi Higuchi, H. Ezzat Khalifa, Alan J. Levy, Jacques Lewalle, Young Bai Moon, Vadrevu R. Murthy, Harish Palanthandalam-Madapusi, Utpal Roy, Eric F. Spina, Jianshun S. Zhang

The mission of the mechanical engineering program at Syracuse University is to educate and promote learning and discovery in mechanical engineering and to prepare students for careers of technical excellence, professional growth, and leadership in a complex and competitive technological environment.

The educational objectives of the mechanical engineering curriculum are to enable graduates of the program to do the following:

- apply the physical, mathematical, and engineering sciences to professional practice or to advanced study in aerospace (mechanical) engineering or related fields;
- be cognizant of societal context and ethical responsibility in professional practice;
- function productively on teams and communicate ideas to both technical and non-technical audiences; and
- be agile, innovative, and adaptable in an increasingly diverse and global environment

In order to meet the demands of new and existing high-tech industries, we prepare our students by providing opportunities to gain marketable and relevant skills that can lead to success in a wide range of careers. The distinctive signature of undergraduate mechanical and aerospace engineering at Syracuse University is its strong technical core coupled with the ability to fit either a technical or a non-technical minor into the curricula. Students explore the breadth of Syracuse University by complementing their mechanical or aerospace engineering degree with a minor in business, public policy, fine arts, public communications, and many more.

Mechanical engineering is a broad discipline concerned with the design and analysis of systems that produce or modify motion, force, and energy into forms useful to people. Mechanical engineers are employed throughout the complete spectrum of industries, including automotive, industrial machinery, publishing and printing, electrical and thermal power, chemical processing, textile, petroleum, computer and electronic, pharmaceutical, apparel, consumer products, soap and cosmetics, paper and wood products, rubber, and glass.

Driven by the breadth of career paths open to mechanical engineering graduates, the B.S. program in mechanical engineering (MEE) is structured to provide a firm educational foundation in the physical, mathematical, and engineering principles and design practices relevant to mechanical and thermal systems. The program is designed to prepare graduates for either immediate employment or for continuing studies at the graduate level.

Requirements for the B.S. MEE program appear below. For the first five semesters the recommended sequence of courses for the B.S. MEE program is identical to the recommended program for the degree B.S. in aerospace engineering (AEE), which demonstrates the similarity and complementary nature of the two disciplines. Courses carrying the prefix MAE indicate that class material and assignments are drawn from both aerospace and mechanical engineering applications.

Beginning in the sixth semester students who follow the B.S. MEE program begin to take courses addressing engineering topics unique to mechanical engineering, including machine design and manufacturing and heat transfer. The last three semesters of the MEE program also include courses of more broad applications, including dynamics of mechanical systems and linear control systems.

Experience with open-ended design problems is obtained in a sequence of courses that span the entire curriculum. The sequence begins with introductory design experiences in the first-year courses ECS 101 and MAE 184.

Upper-division courses involving design include courses in machine design and manufacturing, and senior capstone design. The two-semester capstone design experience (MEE 471,472) requires students to integrate knowledge from all areas in the design of a complete product or system.

The B.S. MEE curriculum allows for programs of study that can be tailored by students to take advantage of the diversity of strengths across both ECS and all of Syracuse University. We provide engineering students with opportunities to complete minors in areas that can complement technical knowledge—such as international affairs, business, and public policy—thus enhancing the value and attractiveness of a Syracuse engineering education. Students can also elect to pursue a technical minor or take a distribution of electives, which will include liberal arts classes, free electives, and additional depth in mechanical engineering. There are a total of 27 elective credits in the B.S. MEE program, at least 6 of which must be chosen from the social sciences or humanities (SSH). The remaining 21 credits allow program customization for each student, and can be distributed in any of three different ways:

- (1) completion of a non-technical University minor and 3 additional free credits;
- (2) 18 credits toward a technical minor and 3 credits of SSH;
- (3) a distribution of electives:
 - a. at least 6 credits of SSH
 - b. at least 9 credits of technical electives
 - c. at least 6 credits of free electives

MEE students usually select technical electives from courses offered by the Department of Mechanical and Aerospace Engineering (MAE); a list of recommended courses is below.

Students are strongly encouraged to develop a plan for selections of their electives during their first year. The planning process should include discussions with the student's academic advisor, other faculty members, and peer advisers. The MAE department offers most undergraduate technical elective courses on a two-year cycle. As a result, it may be necessary for a student to modify the sequence of courses recommended below to accommodate a technical elective course of personal interest.

In addition to successfully completing the requirements for the mechanical engineering program, graduates from this program must also achieve the following educational outcomes:

- an ability to apply knowledge of mathematics, science, and engineering
- an ability to design and conduct experiments, as well as to analyze and interpret data
- an ability to design a system, component, or process to meet desired needs including both thermal and mechanical systems
- an ability to function on multidisciplinary teams
- an ability to identify, formulate, and solve engineering problems
- an understanding of professional and ethical responsibility
- an ability to communicate effectively
- the broad education necessary to understand the impact of engineering solutions in a global and societal context
- a recognition of the need for, and an ability to engage in life-long learning
- a knowledge of contemporary issues
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
- a familiarity with statistics and linear algebra and the ability to apply advanced mathematics through multivariate calculus and differential equations

This program is accredited by the Accreditation Board for Engineering and Technology (ABET).

MECHANICAL ENGINEERING REQUIREMENTS

First Year, Fall Semester (17)

ECS 101 Introduction to Engineering and Computer Science (3)

MAT 295 Calculus I (4)

CHE 106 General Chemistry Lecture I (3)

CHE 107 General Chemistry Lab I (1)

WRT 105 Studio 1: Practices of Academic Writing (3)

Elective #1 (3)

First Year, Spring Semester (17)

MAE 184 Engineering Graphics and Computer-Aided Design (3)

ECS 104 Engineering Computing Tools (3)

MAT 296 Calculus II (4)

PHY 211 General Physics I (3)

PHY 221 General Physics Lab I (1)

Elective #2 (3)

Second Year, Fall Semester (17)

ECS 221 Statics (3)

MAT 331 Linear Algebra (3)

MAT 397 Calculus III (4)

PHY 212 General Physics II (3)

PHY 222 General Physics Lab II (1)

Elective #3 (3)

Second Year, Spring Semester (17)

MAE 251 Thermodynamics (4)

ECS 222 Dynamics (3)

ECS 325 Mechanics of Solids (4)
MAT 514 Introduction to Ordinary Differential Equations (3)
MEE 331 Manufacturing Processes (3)

Third Year, Fall Semester (17)

MAE 315 Mechanical and Aerospace Engineering Lab I (3)
CIE 327/ MAE 341 Fluid Mechanics (4)
ECS 326 Engineering Materials, Properties, and Processing (3)
ELE 231 Electrical Engineering Fundamentals I (3)
ELE 291 Electrical Engineering Laboratory I (1)
Elective #4 (3)

Third Year, Spring Semester (17)

MEE 332 Introduction to Machine Design and Manufacturing (4)
MAE 355 Heat Transfer (4)
MAE 321 Dynamics of Mechanical Systems (3)
WRT 205 Studio 2: Critical Research and Writing (3)
Elective #5 (3)

Fourth Year, Fall Semester (13)

MEE 471 Synthesis of Mechanical Systems I (3)
MEE 416 Mechanical Engineering Lab (1)
MAT 521 Introduction to Probability and Statistics (3)
Elective #6 (3)
Elective #7 (3)

Fourth Year, Spring Semester (13)

MEE 472 Synthesis of Mechanical Systems II (4)
ELE 312 Linear Control Systems (3)
Elective #8 (3)
Elective #9 (3)

Total 128

Recommended Technical Electives

AEE 342 Aerodynamics
AEE 427 Dynamics of Aerospace Vehicles
AEE 446 Propulsion
MAE 536 Composite Materials
MAE 545 Applications of Fluid Mechanics
MAE 571 Application of Computational Fluid Dynamics
MEE 470 Experience Credit
MEE 475 Special Design Project
MEE 490 Independent Study
MEE 490 Independent Study
MEE 524 Microprocessors in Mechanical and Manufacturing Engineering
MEE 571 Computer-Aided Design
MEE 585 Energy Conversion
MFE 534 Statistical Quality Control
MFE 548 Engineering Economics and Tech Evolution
ECS 526 Statistics for Engineers

Courses

Aerospace Engineering

AEE 270 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports, or an examination. Limited to those in good academic standing. R

AEE 290 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

AEE 342 Aerodynamics 4 Y

Vorticity, circulation, potential flow and superposition of flows. Lift, drag, moments of two- and three-dimensional wings. Thin airfoil theories. Panel methods. Lifting-line theory. Flow separation and stall. Viscous drag reduction. Compressibility effects and shock waves.

PREREQ: MAE 341.

AEE 343 Compressible Flow 3

Isentropic flow, normal and oblique shock waves, expansion fans. Compressible flow in converging and diverging nozzles. Course includes lab component with written report.

PREREQ: MAE 251 AND 341.

AEE 416 Aerospace Engrng Lab 1 Y

Experiments in compressible aerodynamics designed and performed in small groups. Written and oral communication of results stressed.

PREREQ: AEE 446.

AEE 427 Aircraft Performance and Dynamics 4 Y

Wing aerodynamic, thrust and drag. Performance analysis of aircraft: take-off, landing, climbing, gliding, turns, range and load factors. Control surfaces. Longitudinal and lateral static stability. Dynamic stability. Introduction to autopilot.

PREREQ: MAE 341.

AEE 442 High Speed Aerodynamics 3 IR

Approximate theories of airfoils and wings, including linearized approximations, singularity distribution and vortex lattice method; effect of sweep; delta wings; method of characteristics, finite difference schemes, and time-dependent approaches.

PREREQ: MAE 342, 343.

AEE 446 Propulsion 3 Y

Fluid dynamics and thermodynamics of airbreathing engines, including gas turbine, ramjet and scramjet. Engine component analysis, including inlets, combustors, nozzles, and turbomachines. Introduction to rocket propulsion.

PREREQ: AEE 343.

AEE 470 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

AEE 471 Desgn/Anlys Aerosp Strctr 4 Y

Structural configuration of modern aircraft and spacecraft. Vehicle design requirements. Symmetric and unsymmetric beams. Single and multicell thin-walled tubes. Skin-stringer construction. Shear flow. Shear lag. Ring, frame, and fuselage analysis. Finite element analysis. Design projects.

PREREQ: ECS 325.

AEE 472 Synth of Aerosp Systems 4 Y

Design of a subsonic, supersonic, or VTOL aircraft; a missile system; or a spacecraft to meet specified performance and cost criteria. Oral and written preliminary and final reports.

PREREQ: AEE 427, AEE 446, AEE 471.

AEE 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

AEE 491 Hypersonics Resch Prjct I 1-3 S

In depth exploration of a problem in the field of hypersonics under the supervision of a faculty member. Projects may be experimental or computational research on hypersonic phenomena, or a conceptual study of hypersonic vehicles.

AEE 492 Hypersonics Resch Prjct II 1-3 S

Advanced research on a problem in the field of hypersonics under the supervision of a faculty member. Projects may be experimental or computational research on hypersonics phenomena, or a conceptual study of hypersonic vehicles.

AEE 527 Helicopter Dynamics 3 SI

Introduction to the helicopter; hover- and vertical-flight analysis; autorotation and vertical descent; blade motion and rotor control; aerodynamics of forward flight.

PREREQ: AEE 342, 427.

AEE 542 Hysnc/Hgh Tmp Gas Dynmcs 3 SI

Inviscid and viscous hypersonic fluid dynamics with and without high temperature effects. Approximate and exact methods for analyzing hypersonic flows. Elements of statistical thermodynamics, kinetic theory, and nonequilibrium gas dynamics. Experimental methods.

PREREQ: MAE 251, AEE 343.

AEE 577 Introduction to Space Flight 3 Y

Two-body orbital mechanics, orbits and trajectories, interplanetary transfers, vehicle and booster performance.

PREREQ: ECS 222.

Bioengineering

BEN 205 Bioengineering Seminar 1 Y

Lecture series with speakers representing wide range of bioengineering topics. Introduces students to breadth of activity in bioengineering.

BEN 212 Experimental Methods in Chemical Engineering and Bioengineering 3 Y

Crosslisted with: CEN 212

Statistical analysis and presentation of experimental data. Parameter estimation. Design of experiments. Hardware and software for computer interfacing. Collection, analysis, and reporting of laboratory data.

PREREQ: MAT 296 AND ECS 104..

BEN 231 Mass and Energy Balances 3 Y

Crosslisted with: CEN 231

Material balances for single units and multistage processes. Recycle and bypass streams. Gas laws. Energy balances including latent and sensible heat effects, heats of reaction. Applications to biomedical processes.

BEN 301 Biological Principles for Engineers 4 Y

Introduction to cell types and structure, nucleic acids, proteins and enzyme kinetics.

Gene expression including transcription, translation and post-translational modification. Introduction to genomics, proteomics and bioinformatics. Genetic engineering and tissue engineering. Applications to biotechnology.

PREREQ: CHE 275, MAT 397 AND ECS 104.

BEN 312 Control Systems 3 Y

Crosslisted with: ELE 312

Review of Laplace transforms and z-transforms, system modeling, transfer functions, feedback, stability. Analysis and design using computer tools. Applications of controls.

PREREQ: ELE/BEN 351.

BEN 333 Fluid Transport 3 Y

Crosslisted with: CEN 333

Fluid statics. Shear stress and viscosity. Energy and momentum balances for flow systems. Dimensional analysis. Friction and drag coefficients. Turbulent flow of compressible and incompressible fluids. Non-Newtonian fluids.

BEN 341 Fundamentals of Heat and Mass Transfer 4 Y

Crosslisted with: CEN 341, MAE 355

Principles of heat and mass transfer.

Conduction, convection, and radiation.

Thermal properties of materials. Solutions of steady state and transient heat and mass transfer problems. Diffusion with chemical reaction. Convective mass transfer. Prereq: CEN 333; MAE 341 or CIE 327.

BEN 351 System and Signal Analysis 3 Y

Crosslisted with: ELE 351

Signal and system analysis in continuous-time, discrete-time, and frequency domains. Fourier series, continuous and discrete Fourier transforms, z-transform, Laplace transform. Engineering applications.

PREREQ: ELE 232, MAT 296.

BEN 364 Quantitative Physiology 4 Y

Double Numbered with: BEN 664

Introduction to mammalian physiology from an engineering perspective. Each of the major systems of the body will be addressed, with an emphasis on electrical, mechanical, and thermodynamic principles. Lecture and laboratory. Additional work required of graduate students.

PREREQ: BEN 301.

BEN 458 Biomedical Imaging 3 Y

Double Numbered with: BEN 658

Basics of imaging techniques useful for biological and medical applications.

Microscopy, electron microscopy, acoustic microscopy, atomic force microscopy, magnetic resonance imaging. Discussion of images and literature. MRI laboratory exercises.

BEN 465 Biomechanics 3 Y

Double Numbered with: BEN 665

Functions and mechanical properties of cells and tissues, how those cells and tissues combine to form structures, the properties and behaviors of those structures, and biomechanical techniques to analyze the structures and individual components.

PREREQ: ECS 221, MAT 485, BEN 364.

BEN 466 Advanced Biomechanics 3-4 Y

Double Numbered with: BEN 666

Introduction to kinesiology and kinematics; finite element method; joint force analysis and the properties of bone cartilage and tendon as related to functional analysis of bone-joint systems.

PREREQ: BEN 465, COREG: BEN 467.

BEN 467 Advanced Biomechanics Lab 3 Y

Double Numbered with: BEN 667

Practical experience in the design, execution and evaluation of experiments. Test the properties of biomaterials, forces on bones and joints using a variety of instruments and transducers.

PREREQ: BEN 465, COREG: BEN 466.

BEN 468 Biomaterials & Medical Devices 3 Y

Double Numbered with: BEN 668

Materials science and biological issues associated with medical devices and biomaterials are discussed. Bulk and surface materials science, tissue engineering, degradation and biocompatibility are addressed and related to medical device design and regulatory issues.

BEN 470 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

BEN 481 Bioinstrumentation 3 Y

Measurement and analysis of biological signals in the time and frequency domain. Operational amplifiers, analog, and digital signal processing; sensors and sources of biopotentials; biopotential electrodes. Matlab, Labview and C programming.

PREREQ: ELE 231, 232.

BEN 482 Bioinstrumentation:**Fundamentals and Laboratory II 4 Y**

Continuation of BEN 481: Level discrimination; digital and analog conversions; blood pressure and sound; biosignal amplifiers and analyzers; safety issues; special topics in instrumentation and bioengineering. Lectures and laboratory.

PREREQ: BEN 481.

BEN 485 Bioengineering Laboratory 4 Y

Practical experience in the design, execution and analysis of experiments related to biomechanics and bioinstrumentation.

Technical writing skills will also be emphasized. One four-hour laboratory a week.

COREQ: BEN 465 AND BEN 481.

BEN 487 Bioengineering Capstone Design 3 Y

Bioengineering design experience. Lecture, discussion, active learning components. Team design of biomedical system, device, or process from concept through prototype production. Includes design strategy, reliability, FDA regulations, patents, oral, and written presentations.

BEN 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study based on a plan submitted by the student. R

BEN 498 Senior Thesis 3 S

Mentored investigation of an approved topic under the supervision of a member of the faculty. A written report and oral presentation are required in accordance with program guidelines. Required of all students.

BEN 499 Honors Thesis 3-6 Y**BEN 500 Selected Topics 1-3 IR**

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

BEN 541 Principles of Tissue Engineering 3 Y

Cellular and biomaterials principles relevant to tissue engineering, focusing on cellular and tissue organization; regulation of cell behavior; biomaterials for tissue regenerations; tissue engineering applications in cardiovascular, neurological, and musculoskeletal and other organ systems.

PREREQ: BEN 301.

BEN 575 Process Control 3 Y

Crosslisted with: CEN 575

Modeling and linearization of process dynamics. Transfer functions. Performance and stability of feedback control loops. Introduction to multivariable and digital controls.

Chemical Engineering**CEN 212 Experimental Methods in Chemical Engineering and Bioengineering 3 Y**

Crosslisted with: BEN 212

Statistical analysis and presentation of experimental data. Parameter estimation. Design of experiments. Hardware and software for computer interfacing. Collection, analysis, and reporting of laboratory data.

PREREQ: MAT 296, AND ECS 104.

CEN 231 Mass and Energy Balances 3 Y

Crosslisted with: BEN 231

Material balances for single units and multistage processes. Recycle and bypass streams. Gas laws. Energy balances including latent and sensible heat effects, heats of reaction. Applications to biomedical processes.

CEN 252 Chemical Engineering Thermodynamics I 3 Y

Review of first law. Second law and thermodynamic analysis of processes. Power and refrigeration cycles. Thermodynamic properties of pure substances and homogeneous mixtures. Phase behavior of ideal solutions.

PREREQ: CEN 231.

CEN 311 Chemical Engineering Laboratory I 2 Y

Introduction to report writing and laboratory safety. Experiments on fluid mechanics, heat conduction, and convective heat transfer. Analysis of experimental data. Engineering reports, summary reports, and oral presentations required. One four-hour laboratory each week.

PRE-COREQ: CEN 341.

CEN 333 Fluid Transport 3 Y

Crosslisted with: BEN 333

Fluid statics. Shear stress and viscosity. Energy and momentum balances for flow systems. Dimensional analysis. Friction and drag coefficients. Turbulent flow of compressible and incompressible fluids. Non-Newtonian fluids.

PREREQ: MAT 397, PHY 212.

CEN 341 Fundamentals of Heat and Mass Transfer 4 Y

Crosslisted with: BEN 341, MAE 355

Principles of heat and mass transfer. Conduction, convection, and radiation. Thermal properties of materials. Solutions of steady state and transient heat and mass transfer problems. Diffusion with chemical reaction. Convective mass transfer. Prereq: CEN 333; MAE 341 or CIE 327.

PREREQ: CEN 333, MAE 341 OR CIE 327.

CEN 353 Chemical Engineering Thermodynamics II 3 Y

Thermodynamics of homogeneous mixtures and mixing processes. Phase equilibrium for nonideal solutions. Equilibrium stage separations with applications including distillation and extraction. Chemical reaction equilibria.

PREREQ: CEN 252.

CEN 390 **Research In CEN 1-6 S**
R

CEN 412 **Chemical Engineering Laboratory II 2 Y**

Report writing and laboratory safety. Statistical analysis and experimental design. Experiments on distillation, diffusion, and convective mass transfer. Engineering reports, summary reports, and oral presentations required. One four-hour laboratory a week. PREREQ: CEN 341.

CEN 461 **Environmental Chemistry and Analysis 3 Y**

Crosslisted with: CIE 471; Double Numbered with: CEN 661
An introduction to chemical principles in natural and engineered environmental systems. Thermodynamics and kinetics of reactions; acid-base chemistry; environmental organic chemistry; treatment process design applications. Includes selected laboratory exercises. Additional work is required of graduate students.

CEN 490 **Independent Study 1-6 S**

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

CEN 500 **Selected Topics 1-3**

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

CEN 542 **Heat and Mass Transfer Operations 3 Y**

Selected topics in mass and heat and heat transfer. Application of principles of units operations. PREREQ: CEN 341.

CEN 551 **Biochemical Engineering 3 Y**

Introduction to microbiology, biochemical kinetics. Biochemical-reactor design, including methods for oxygen transfer and control. Introduction to separation processes in biochemical engineering. PREREQ: CHE 275, 346; CEN 333.

CEN 561 **Polymer Science & Engineering 3 Y**

Polymer structure, physical properties, and applications of polymers. Polymer synthesis, characterization of molecular structure, and copolymerization and blending. Unique physical properties of polymeric materials. Processing and applications of polymers.

CEN 565 **Bioremediation 3**

Crosslisted with: CIE 565
Uses of bioremediation in engineering applications. Role of microorganisms in degradation of pollutants and contaminants. Regulatory, societal, and legal issues of bioremediation. PREREQ: CIE 472.

CEN 567 **Biotechnology 3**

Crosslisted with: CIE 567
Engineering applications of biotechnology in agriculture, industry, and the environment. Principles of molecular genetics as applied in the biotechnology industry. Hands-on exposure to laboratory recombinant DNA technology. PREREQ: CIE 472.

CEN 573 **Principles and Design in Air Pollution Control 3 IR**

Fundamental principles of pollution control, design of control processes and equipment. Criteria for selection of control processes and equipment for gaseous and particulate pollutants.

CEN 574 **Process Design 4 Y**

Chemical engineering principles for plant design and optimal process operation. Cost estimation and profitability analysis. Shortcut and computer-aided process design techniques. Environmental impact and health and safety concerns. PREREQ: CEN 353, 587.

CEN 575 **Process Control 3 Y**

Crosslisted with: BEN 575
Modeling and linearization of process dynamics. Transfer functions. Performance and stability of feedback control loops. Introduction to multivariable and digital controls. PREREQ: MAT 485.

CEN 576 **Green Engineering 3 IR**

Review of environmental regulations. Evaluating the environmental fate of chemicals. Techniques for improving environmental performance of processes. Methods for evaluating environmental performance, design of unit Operations, and flowsheets for pollution prevention. Environmental cost accounting. PREREQ: CEN 341 AND CEN 353.

CEN 587 **Chemical Reaction Engineering 3 Y**

Conversion and reactor sizing, isothermal reactor design for flow and batch systems, rate laws and stoichiometry, analysis of rate data, multiple reactions, introduction to heterogeneous reactor design. PREREQ: CEN 341, CHE 356.

CEN 590 **Recent Advances In Cen 3 IR**

Selected topics in research and new areas of competence in chemical engineering. R

Civil Engineering

CIE 272 **Civil and Environmental Engineering Measurements 3 Y**

Skills for civil and environmental engineering measurements. Map reading and theory of measurement. Numerical analysis and methods. Problem solving using computers. PREREQ: MAT 295.

CIE 274 **Civil and Environmental Systems 3 Y**

Introduction to systems theory and concepts applied to natural and built environments. Sustainability, ecosystems, mass and energy balances, chemical transformation and reactions. Basic principles for civil and environmental engineering design and decision making. PREREQ: CHE 106, MAT 295.

CIE 327 **Prin of Fluid Mechanics 4 IR**

Dimensional analysis. Hydrostatics. Equations of motion. Bernoulli's equation. Euler's momentum theorem. One-dimensional analysis. Velocity potential. Stream function. Laminar viscous flow. Potential flow applications. PREREQ: MAT 397.

CIE 331 **Analysis of Structures and Materials 3 Y**

Analysis of statically determinate and indeterminate trusses, beams, and frames by traditional and computer-based methods. Physical, mechanical, and thermal properties of conventional and environmental friendly construction materials. PREREQ: ECS 325.

CIE 332 **Design of Concrete Structures 3 Y**

Analysis and design of environmentally friendly reinforced concrete structures subjected to flexural, shear, and axial loads. Analysis of stresses and deformations and their relation to codes and specifications. PREREQ: CIE 331.

CIE 337 **Introduction to Geotechnical Engineering 4 Y**

Nature and composition of soils. Formation and classification of natural soils and man-made construction materials. Compaction, permeability and seepage, consolidation and settlement, shear behavior and strength. PREREQ: ECS 325.

CIE 338 **Foundation Engineering 3 Y**

Subsurface investigation, bearing capacity, lateral earth pressures. Design of retaining structures, shallow and deep foundations. Slope stability, foundations on difficult soils, and soil-improvement methods. PREREQ: CIE 337.

CIE 341 **Introduction to Environmental Engineering 3 Y**

Fundamental principles of environmental processes, pollution, and pollution control, including mass transfer, water chemistry and microbiology, water and air pollution, and solid- and hazardous-waste management. PREREQ: CIE 274.

CIE 352 **Water Resources Engineering 4 Y**

Analysis and design of hydraulic facilities including pipe systems, open channels, pumps and turbines, and ground water wells. Analysis of rainfall and riverflow; surface and subsurface water storage. Laboratory experiments and problem solving. PREREQ: CIE 327 OR MAE 341.

CIE 372 Project Layout and Site Planning 3 Y

Construction surveying; cut and fill calculations; route surveying; GPS methods; site planning and layout issues. Project-oriented course includes CAD applications in civil engineering and field work with modern surveying equipment and software.
PREREQ: CIE 272.

CIE 433 Intermediate Structural Analysis 3 IR

Analysis of cables and arches. Classical and matrix methods of truss, beam, and frame analysis. Computer and numerical methods of structural analysis. Relation of analysis to design.
PREREQ: CIE 331.

CIE 442 Treatment Processes in Environmental Engineering 3-4 Y

Double Numbered with: CIE 642
Fundamental engineering concepts and principles used for the design and operation of water and wastewater treatment systems. Estimating water demand and wastewater flows in the urban water use cycle. Significance of government regulations and standards.
PREREQ: CIE 327 OR MAE 341 AND CIE 341.

CIE 443 Transportation Engineering 3 Y

Double Numbered with: CIE 643
Transportation systems, modes and significance. Traffic engineering fundamental relationships and field studies. Intersection design and control. Geometric design of road alignments. Introduction to transportation planning. Additional work required of graduate students. A research report is required for CIE 643.
PREREQ: MAT 296 AND PHY 211; COREQ CIE 272.

CIE 457 Biogeochemistry 3 Y

Double Numbered with: CIE 657
Biogeochemical relationships as a unifying concept for ecological systems, including importance of biogeochemical relationships in ecosystems and global cycles. The interface between abiotic and biotic components of ecosystems is explained. Additional work required of graduate students.
PREREQ: CHE 106, 107.

CIE 471 Environmental Chemistry and Analysis 3 Y

Crosslisted with: CEN 461; Double Numbered with: CIE 671
An introduction to chemical principles in natural and engineered environmental systems. Thermodynamics and kinetics of reactions; acid-base chemistry; environmental organic chemistry; treatment process design applications. Includes selected laboratory exercises. Additional work is required of graduate students.

CIE 472 Applied Env Microbiology 3 Y

Double Numbered with: CIE 672
General Principles and application of environmental microbiology and microbial processes. Role of microbes in water pollution control, environmental health, and element cycling in the environment. Additional work is required of graduate students.

CIE 473 Transp Procss/Env Engrng 3 E

Double Numbered with: CIE 673
Fundamentals and applications of mass and heat transport in environmental engineering. Molecular and turbulent diffusion, advection, dispersion, settling, and surface transfer in air and water. Quantitative applications in treatment systems and the natural environment. Additional work is required of graduate students.
PREREQ: CIE 327, 341 OR MAE 341.

CIE 475 Civil and Environmental Engineering Design 4 Y

Capstone design experience. Fundamental principles in various areas of civil and environmental engineering applied to open-ended design projects. Economics, safety, reliability, environmental, sustainability, ethical and social considerations.

CIE 478 Rehabilitation of Civil Infrastructure 3 Y

Double Numbered with: CIE 678
Deterioration of construction materials. Evaluation, non-destructive testing, and rehabilitation of existing structures. Properties and applications of repair materials. Seismic retrofit of bridges. Analysis and design of structural members retrofitted with carbon fiber reinforced polymer composites.
PREREQ: CIE 332, ECS 325.

CIE 490 Independent Study 1-6 Y

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

CIE 535 Strctrl Steel Design 3 O

Design of structures using load- and resistance-factor design concept. Limit states design of columns, beams, beam-columns, frames, connections, plate girders, and composite sections. Computer applications to design.
PREREQ: CIE 331.

CIE 536 Prestressd Concrete Design 3 O

Analysis and design of prestressed concrete members for flexure, shear, torsion, and compression. Basic concept of prestressing. Stress computation and prestress loss estimation. Deflection and crack control.
PREREQ: CIE 331.

CIE 538 Dynamics of Structures 3 SI

Response of single and multiple degree of freedom systems to dynamic loadings (harmonic, blast, wind, earthquake); design of buildings, bridges, and pipelines for dynamic loading (with particular emphasis on earthquakes); building and bridge codes.

CIE 545 Pavement Design 3 E

Pavement types and stress analysis, traffic assessment, subgrade and pavement materials evaluation, design of flexible and rigid pavements for highways and airports, pavement distress and rehabilitation, introduction to pavement management systems and SuperPave mix design.
PREREQ: CIE 338; COREQ: CIE 443/643.

CIE 549 Designing and Geofom 3 SI

Introduction to geofom production, physical properties, evaluation of engineering parameters, specification and quality assurance, analyses and design of selected applications, comparison with conventional methods, field monitoring, and case histories.
PREREQ: CIE 338.

CIE 554 Prin Envrn Toxicology 3 SI

Factors that make chemicals environmental hazards and techniques used in their evaluation. Topics include chemical, physiological, and molecular aspects of toxicology; transport and fate of chemicals in the environment; and current legislation.
PREREQ: BIO 121, 123, OR CHE 106, 107, 275.

CIE 555 Hazardous Waste Mgmt 3 Y

Regulations that address management of hazardous wastes. Practices and technologies commonly used in meeting regulations. Investigative and diagnostic techniques.

CIE 558 Solid Wastes: Collection and Disposal 3 O

Composition of refuse. Quantities produced by individuals and industries. Collection equipment, methods, and associated costs. Disposal problems and solutions, such as landfills, incineration, and composting.

CIE 561 Air Resources I 3 O

Occurrence, nature and properties, major sources and quantities of contaminants. Ambient air concentration levels, community distribution patterns, and control of air pollution.

CIE 565 Bioremediation 3 IR

Crosslisted with: CEN 565
Uses of bioremediation in engineering applications. Role of microorganisms in degradation of pollutants and contaminants. Regulatory, societal, and legal issues of bioremediation.
PREREQ: CIE 472.

CIE 567 Biotechnology 3 IR

Crosslisted with: CEN 567
Engineering applications of biotechnology in agriculture, industry, and the environment. Principles of molecular genetics as applied in the biotechnology industry. Hands-on exposure to laboratory recombinant DNA technology.
PREREQ: CIE 472.

CIE 570 Water&Wastewtr Trtmt Des 3 IR
Design of water and wastewater treatment plants; design capacity, process size and configuration, and overall treatment system performance for specific use needs and regulatory requirements. Groups prepare designs and cost estimates with written and oral reports.
PREREQ: CIE 327, 342. R

CIE 584 Design W/Geosynthetics 3 SI
Engineering properties of geosynthetics (geotextiles, geogrids, geonets, geomembranes, and geocomposites). Design of filters using geotextiles, retaining structures using geosynthetics, design of liquid impoundment, and solid waste containment facilities.
PREREQ: CIE 337.

Computational Science

CPS 181 Introduction to Computing 3 IR
Organization of computers, elementary programming, and problem solving. Applications in such areas as calculation and visualization, communication, databases, graphics, and artificial intelligence. Origins of the modern digital computer, future trends, social impact, abuses. Includes lab.

CPS 196 Introduction to Computer Programming:C 3 IR
Crosslisted with: CAS 196
Basic computing concepts, data representation, problem definition, algorithms and flow charts, the C language, programming exercises. Students may not receive credit for both CPS 196 and ECS 102.

CPS 234 Introduction to Computational Thinking 3 Y
Computational-thinking skills developed through team-based problem solving. Fundamental concepts of computation, including algorithms, data organization, and computational strategies. Application of those concepts to solve problems from multiple settings and disciplines.

CPS 333 UNIX Operating System and Internet 3
UNIX operating system: commands, hierarchical file systems, editors, windowing, networking, security, administration. Emphasis on shell programming, awk scripts, sed, e-mail, newsgroups, Internet, telnet/ftp, search tools (Archie, Gopher, WAIS, Mosaic). For nonmajors in computer science.

CPS 335 JAVA programming for the Internet 3
Introduction to JAVA, object-oriented programming concepts and windows programming. Variables and data types, expression evaluation, control, stand-alone programs, inheritance, polymorphism, applets, graphics classes, arrays and strings, interfaces, threads, windows, widgets, animation, sound, libraries.

CPS 430 Topics in Computational Science 3 IR
Crosslisted with: CIS 430
A variety of subjects surveyed or a particular subject in depth. R3, 12 credits maximum

CPS 490 Independent Study 1-6
In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor and the department. R

CPS 504 Introduction to C++ 3
Object oriented programming in C++: classes, derived classes, data abstraction, inheritance, and access control. Substantial programming assignments. For students not majoring in computer science.
PREREQ: CPS 196.

CPS 506 Introduction to C 3
Programming in C: data types, control structures; the preprocessor; arrays and pointers. Substantial programming assignments. For students in computer science.

Computer And Information Science

CIS 252 Introduction to Computer Science 4 Y
Programming emphasizing recursion, data structures, and data abstraction. Elementary analysis of and reasoning about programs. Public policy issues. Extensive programming. Three hours of lecture and one hour of computer laboratory.
PREREQ: MAT 295.

CIS 275 Introction to Discrete Mathematics 3 Y
Basic set theory and symbolic logic. Methods of proof, including mathematical induction. Relations, partitions, partial orders, functions, and graphs. Modular arithmetic. Credit cannot be given for both MAT 275 and CIS 275.
PREREQ: PHI 251.

CIS 321 Intro to Probablt/Statist 4
Binomial theorem, enumeration, elements of probability, distributions, moments, samples and estimation, test of hypothesis, confidence intervals, and regression.
PREREQ: MAT 295.

CIS 341 Cptr Organ&Progrmmng Syst 3 Y
Essentials of computer organization: digital logic, microprogramming, processors, memories, input-output devices. Instruction sets, assembly language, data types, relation to high level languages. Program construction, traps and interrupts, input-output programming.
PREREQ: ECS 102 OR CIS 252.

CIS 351 Data Structures 4 Y
Abstract data structures, algorithm analysis, array, string lists, trees, binary search trees, priority queues, hashing, graphs, object-oriented programming. Three hours of lectures. One hour of computer laboratory.
PREREQ: CIS 252.

CIS 352 Progrmng Lang:Thry&Prtic 4 Y
Environments, stores, scoping, functional and imperative languages, modules, classes, data encapsulation, types, and polymorphism. Implementation of these constructs in a definitional interpreter. Three hours of lectures. One hour of computer laboratory.
PREREQ: CIS 275, 351.

CIS 390 Hnrs Sem/Cmptr & Info Sci 3 IR
Specific topics in computer and information science suitable for honors-thesis research. R

CIS 400 Selected Topics 1-3
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

CIS 406 Comp Meth Distr Info Sys 3
Double Numbered with: CIS 606
Computational methods and algorithms for information technologies. Includes network issues, digital media, Web access to databases, software and hardware architectures, and virtual reality. Project or term paper required for CIS 606, not for CIS 406.
PREREQ: CIS 401.

CIS 425 Introduction to Computer Graphics 3 IR
Graphics programming. User interfaces. Modeling and viewing transformations. Shading techniques. Representations of three-dimensional models. Curves and non-planar surfaces. Ray tracing and radiosity. Antialiasing.
PREREQ: ECS 102.

CIS 428 Introduction to Cryptography 3
Classical cryptosystems and their cryptanalysis, RSA and other public-key cryptosystems, pseudo-random sequences, zero-knowledge protocols, related ethical and social concerns.
PREREQ: CIS 477 AND MAT 534 OR 541.

CIS 430 Topics in Computational Science 3 IR
Crosslisted with: CPS 430
A variety of subjects surveyed or a particular subject in depth. R3, 12 credits maximum

CIS 453 Software Specification and Design 3
Software requirements analysis, including structured analysis methodology. Behavioral and nonbehavioral aspects of software specification. Development of specification. Development of specification documents. High-level design and software architecture.
PREREQ: CIS 275 AND EITHER CIS 351 OR CSE 382.

CIS 454 Software Implementation 3 Y
Ethics in software development. Detailed design of software, using tools such as structure charts. Implementation and software testing. Team projects and presentations.
PREREQ: CIS 453.

CIS 458 Data Networks: Basic Principle 3 Y
Crosslisted with: CSE 458, ELE 458
Data communication networks, multilayer network architecture, data transmission fundamentals, network protocols, local and wide area networks, transport and application protocols.

CIS 467 Intro/Artfcl. Intelligence 3 SI

Double Numbered with: CIS 667

Knowledge representation, production systems, search algorithms, game playing, uncertainty handling, learning, automated reasoning, computer vision, and natural language processing. Programming project or term paper required for CIS 667, not for CIS 467.

CIS 468 Natural Language Processing 3 SI

Double Numbered with: CIS 668

Linguistic and computational aspect of natural language processing technologies. Lectures, readings, and projects in the computational techniques required to perform all levels of linguistic processing of text. Additional work required of graduate students.

CIS 470 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

CIS 471 Optimization Methods 3 Y

Classical methods of minimum and maximum, gradient methods, conjugate direction methods, linear programming and simplex algorithm, integer programming, non-linear optimization, random search algorithms. PREREQ: MAT 295, MAT 296 AND MAT 331..

CIS 473 Automata and Computability 3 Y

Countable and uncountable sets; diagonalization proofs; finite state automata; regular, context-free, context-sensitive, recursive, and r. e. languages; Turing machines; relationships between classes of languages and machines; the halting problem; proof methods for decidability and undecidability. PREREQ: CIS/MAT 275.

CIS 477 Introduction to Analysis of Algorithms 3 Y

Mathematical modeling of computational problems; searching and sorting algorithms; search trees, heaps, and hash tables; divide-and-conquer, dynamic programming, and greedy choice design techniques; graph algorithms; NP-completeness; and selected topics. PREREQ: CIS 275 AND CIS 351.

CIS 478 Introduction to Quantum Computing 3

Purpose of QC; simple Markov processes; quantum registers; quantum state transitions; classical vs quantum models of computation; measurement and superposition; no-cloning theorem; quantum teleportation; quantum logic. PREREQ: CIS 275, MAT 397 OR MAT 331.

CIS 483 Introduction to Computer and Network Security 3

Crosslisted with: CSE 484

Operating system security. Authentication. Access control. Program vulnerabilities. Malicious code. Secure programming principles. TCP/IP protocols, vulnerabilities, attacks, and countermeasures. Firewalls. Intrusion detection. Secret-key and Public-key cryptography. One-way has function. Digital Signature.

CIS 486 Design of Operating Systems 3 Y

Crosslisted with: CSE 486

Design and implementation of modern operating systems. Resource management and protection of CPU, memory, and storage. File systems. Input/output. Concurrent process implementation. Process synchronization. Networking.

CIS 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

CIS 500 Selected Topics 1-3

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

CIS 521 Discrete Mathematics and Data Structures 3 S

Basic discrete mathematics: sets, relations, graphs, functions. Fundamental properties of linked lists, graphs and trees, their computer representations and algorithms that manipulate them. Hash Tables, relational structures, directory structures.

CIS 531 Compiler Construction 3 SI

Programming a small compiler. Lexical analysis, tokens, finite automata, hashing. Syntax analysis, grammars, syntax trees, error recovery. Scope and type analysis, symbol tables. Run-time stack, variable addressing, expression evaluation, procedure activation, recursion. Code generation, Optimization, portability. PREREQ: CIS 351.

CIS 542 Computer Organization and Architecture 3

Instruction set design, computer arithmetic, processor organization, high-level programs and machine code, memories, performance measurement, pipelining, input-output organizations. COREQ: CIS 555.

CIS 543 Control of Robots 3 Y

Crosslisted with: ELE 516

Kinematics, dynamics, and control of mobile and/or manipulator robots. Path planning, actuators, sensors, human/machine interface. Two hours lecture and two hours laboratory weekly. Design project.

CIS 545 Introduction to Combinatorics 3 Y

Crosslisted with: MAT 545

Permutations, combinations, recurrence relations, generating functions, inclusion-exclusion and applications, introductory graph theory. PREREQ: CIS/MAT 275.

CIS 551 Modern Programming in Java 3

Programming in Java with generic classes. Defining generic classes. Specifying types and inheritance. Verifying correctness of Java methods and classes. Managing concurrency, remote method invocation, and performance considerations. PREREQ: CIS 351, CIS 352.

CIS 553 Softw. Sysys. Implem. 3 Y

Organization, analysis, and documentation of a sophisticated implementation project in a prominent high-level language, such as ADA, C, or Modular-2. Substantial programming assignments and analytical documentation. Language and project may vary from year to year. PREREQ: CIS 453.

CIS 554 Object Oriented Programming in C++ 3 Y

Survey of basic C constructs. Data abstraction, classes, derived classes, types, structures and template. Access control, information hiding, multiple inheritance. Formatting stream I/O, libraries, interfaces, modular system Organization. Substantial programming assignments. PREREQ: ECS 102.

CIS 555 Principles of Programming I 3

Abstract data structures, linked structures, trees including AVL and B-trees, hashing, memory management, search and sort algorithms, object-oriented programming. COREQ: CIS 521.

CIS 556 Principles of Programming II 3

Functional programming, modules, data encapsulation, types and polymorphism, program correctness, lambda-calculus, beta-reduction, evaluation strategies, basic implementation techniques. PREREQ: CIS 555, 521.

CIS 565 Intro Artfcl Neural Ntwks 3 Y

Perceptrons and the Perceptron Convergence Theorem; non-linear optimization, gradient descent methods; neural net architecture, conjugate-gradient and recurrent networks; Hopfield networks, Kohonen's feature maps; non-neural clustering algorithms.

CIS 567 Knowldg Represntn/Reasong 3

Applications of mathematical methods to knowledge bases. Methods include nonclassical, fuzzy logic and statistical inference. Application topics include planning, temporal and physical reasoning, attitudes, the frame problem, preference, constraints, qualitative differential equations, situation theory.

CIS 581 Concurrent Programming 3 IR
Processes, events, alphabets, and trace sets. Process equivalence. Divergence, dead-lock, fairness, and termination. Message channels, buffers, pipelines, trees, rings, grids, recursive nets. Mutual exclusion, semaphores, conditional critical regions, monitors, remote procedures. Programming exercises in Joyce.

CIS 583 Systems Assurance Seminar 3 Y
Crosslisted with: CSE 583
Basic terminology of assurance and cryptography. Social and privacy issues of assurance. Ethics in computing. Legal aspects and implications of system assurance. Weekly presentations by external and internal speakers.

Computer Engineering

CSE 261 Digital Logic Design 3 Y
Number representations, Boolean Algebra, logic minimization, memory circuits, counters, state diagrams, state machine design, arithmetic circuits, and asynchronous circuits. Logic simulators will be used to demonstrate and provide students with design activities.
PREREQ: ELE 231 AND 291.

CSE 281 Cmptr Org & Assembly Lang 3 Y
Processor organization, addressing, fetch/execute cycle, instruction set, stacks, traps and interrupts. Machine language. Assemblers, macros, and subroutines.
PREREQ: ECS 101 AND 102.

CSE 282 System Software Design 3 SI
Real-time aspects of assembly-language programming for complex systems with shared data and concurrent input/output. Input/output requirements and architecture, interrupts, buffering, concurrency of operations, and memory management.
PREREQ: CSE 281.

CSE 283 Introduction to Object-Oriented Design 3 Y
Present fundamental software design concepts of functional decomposition and object-oriented design. Use both C++ and Java to implement design projects which will be completed to demonstrate the design concepts.
PREREQ: ECS 102.

CSE 351 Mathematical Analysis of Digital Systems 3 Y
Techniques for the performance evaluation of computer systems. Simulation, analytical, and measurement techniques. Analytical techniques include evaluation of algorithms, scheduling algorithms, and independent and concurrent processes.
PREREQ: MAT 521 AND CSE 281, 397.

CSE 381 Computer Architecture 3 Y
Data representation, memory hierarchies, protection, specialized processors, multiple computers, performance evaluation, and reliability.
PREREQ: CSE 261, 281.

CSE 382 Algorithms & Data Structr 3 Y
Data structures and algorithms implemented in high-level language. Nonnumeric processing, including database management. Types, structures, pointers, linked lists, recursion, iteration, retrieval, pattern recognition, and context processing.

CSE 397 Computer Lab I 3 Y
Experimental methods using electrical equipment. Logic modules, computer programming, analog and digital computer operation, logic-circuit design and testing. One hour of recitation and six hours of laboratory a week.
PREREQ: CSE 261 AND ELE 292.

CSE 398 Computer Laboratory II 3 Y
Continuation of CSE 397. One hour of recitation and six hours of laboratory a week.
PREREQ: CSE 397.

CSE 458 Data Networks: Basic Principle 3 Y
Crosslisted with: CIS 458, ELE 458
Data communication networks, multilayer network architecture, data transmission fundamentals, network protocols, local and wide area networks, transport and application protocols.

CSE 464 Introduction to VLSI Design 3 Y
Crosslisted with: ELE 464
MOS VLSI technologies. CMOS digital circuits. Layout design. Simulation. Realization of digital subsystems-adders, memory, etc. Opportunities for chip fabrication and testing.
PREREQ: CSE 261, ELE 331, AND CSE 398 OR ELE 391.

CSE 471 Introduction to Embedded System Design 3
stem specification and architecture modeling; components of embedded systems; CPU, ASIC, control systems, interfacing peripherals; embedded computing platforms and real-time operating systems.
PREREQ: 381.

CSE 482 Principles/Software Engr 3 SI
Software life cycle; requirements and tools; informal and formal specifications; design methodologies; structural and functional testing; models for reliability and cost. Course project required.
PREREQ: CSE 382, MAT 398 AND 521.

CSE 483 Windows Programming 3 SI
Design and implementation of Windows 32-bit applications. Windows API techniques and Windows MFC techniques will be presented. This is a projects course.
PREREQ: CSE 382 OR CIS 351.

CSE 484 Introduction to Computer and Network Security 3
Crosslisted with: CIS 483
Operating system security. Authentication. Access control. Program vulnerabilities. Malicious code. Secure programming principles. TCP/IP protocols, vulnerabilities, attacks, and countermeasures. Firewalls. Intrusion detection. Secret-key and Public-key cryptography. One-way has function. Digital Signature.

CSE 486 Design of Operating Systems 3 Y
Crosslisted with: CIS 486
Design and implementation of modern operating systems. Resource management and protection of CPU, memory, and storage. File systems. Input/output. Concurrent process implementation. Process synchronization. Networking.

CSE 497 Senior Design Project 1-4 S
Integrates skill in analysis, design, and presentation through one extensive project selected from a list generated by course advisors. R

CSE 561 Digital Machine Design 3 Y
Behavioral and structural design methods and examples using a hardware description language (VHDL).?Control, arithmetic, bus systems, memory systems. Logic synthesis from hardware language descriptions.
PREREQ: CSE 261.

CSE 565 Introduction to VLSI Testing and Verification 3 SI
Techniques for validating the correctness of the logical and physical implementation of a digital system in two independent modules: (1) functional verification, and (2) test and validation.
PREREQ: CSE 464, 561.

CSE 571 Switching Theory 3

CSE 581 Intro D/Base Mngmt Syst. 3 Y
DBMS building blocks; entity-relationship and relational models; SQL/Oracle; integrity constraints; database design; file structures; indexing; query processing; transactions and recovery; overview of object relational DBMS, data warehouses, data mining.
PREREQ: CSE 382 OR CIS 351.

CSE 583 Systems Assurance Seminar 3 Y
Crosslisted with: CIS 583
Basic terminology of assurance and cryptography. Social and privacy issues of assurance. Ethics in computing. Legal aspects and implications of system assurance. Weekly presentations by external and internal speakers.

CSE 588 Translator Design 3 SI
Compiling or interpreting computer languages. Lexical analysis, grammars, parsing, intermediate code design, semantic processing, optimizing, error processing, and diagnostic tools. Senior or graduate standing in computer engineering.
PREREQ: CSE 382.

CSE 591 Special Problems in Computer Systems Engineering 1-4 SI
Students work on special projects. Instructors present new or special material. R29, 30 credits maximum

Electrical Engineering

ELE 231 **Electrical Engineering Fundamentals I** 3-4 S

Analysis of electric circuits. Resistive, reactive circuits. Independent, dependent sources. Network theorems, circuit reduction. Elements of transient and steady state circuit analysis. Power and energy considerations. Circuit simulation laboratory required for 4 credits. PREREQ: MAT 295, PHY 211.

ELE 232 **Electrical Engineering Fundamentals II** 3 S

Frequency response, filters. Second order circuits. Semiconductors, diodes, bipolar junction transistors, field effect transistors, models, circuits. Operational amplifiers, models, circuits. Transformers, rotating machines. DC generators and motors. Alternators. AC motors. PREREQ: ELE 231.

ELE 291 **Electrical Engineering Laboratory I** 1 Y

Electrical-instrumentation and measurement. Experimental methods in linear and nonlinear devices and circuits. One hour of recitation and one three hour laboratory a week. COREQ: ELE 231.

ELE 292 **Electrical Engineering Laboratory II** 1 Y

Continuation of ELE 291. Experimental methods and design with electrical circuits. SPICE circuit simulation. One hour recitation and one three-hour laboratory a week. PREREQ: ELE 291 COREQ: ELE 232.

ELE 312 **Control Systems** 3 Y

Crosslisted with: BEN 312
Review of Laplace transforms and z-transforms, system modeling, transfer functions, feedback, stability. Analysis and design using computer tools. Applications of controls. PREREQ: ELE/BEN 351.

ELE 331 **Digital Circuits and Systems** 3 Y

Basic switching circuits and systems using diodes, bipolar and field-effect transistors. Integrated-circuit implementation of gates and counters. PREREQ: ELE 232.

ELE 333 **Analog Circuits** 3 Y

DC and small signal models of BJT and FET. Biasing of discrete circuits. Single-stage BJT and FET amplifiers. Voltage gain, current gain, input and output impedances. Differential amplifiers. Frequency response PREREQ: ELE 231,232.

ELE 346 **Semiconductor Devices** 3 Y

Physics of semiconductor devices. Energy bands. Electrons and holes. PN and metal semiconductor diodes. Characteristics, operation, properties and limitations of bipolar transistors, JFETS and MOSFETS. PNP devices. Optoelectronic devices. PREREQ: PHY 212.

ELE 351 **System and Signal Analysis** 3 Y

Crosslisted with: BEN 351
Signal and system analysis in continuous-time, discrete-time, and frequency domains. Fourier series, continuous and discrete Fourier transforms, z-transform, Laplace transform. Engineering applications. PREREQ: ELE 232, MAT 296.

ELE 352 **Digital Signal Processing** 3 Y

Discrete time sequences and systems. Sampling. Discrete Fourier transform. z-transform. Finite impulse response (FIR) filters. Infinite impulse response (IIR) filters. PREREQ: ELE 351.

ELE 391 **Digital Circuits Laboratory** 3 Y

Digital circuit analysis and design using discrete and integrated components. Extensive half-semester design project. Circuit simulation. One hour of recitation and two three-hour laboratories a week. PREREQ: ELE 292 COREQ: ELE 331.

ELE 392 **Analog Circuits Laboratory** 3 Y

Analog circuit analysis and design using discrete and integrated components. Extensive half-semester design project. Circuit simulation. One hour of recitation and two three-hour laboratories a week. PREREQ: ELE 292, COREQ: ELE 333.

ELE 416 **Electromechanical Devices** 3 Y

Principles of energy conversion that provide the basis of operation for electrical machinery, meters, and other transducers. Rotating DC and AC machines. PREREQ: ELE 232, ELE 324/PHY 543.

ELE 424 **Fundamentals of Radio Frequencies and Microwaves** 3 Y

Transmission lines at high frequencies. Impedance matching. Network parameters. Basics of filters, couplers, amplifiers, oscillators, mixers, and antennas used in microwave communication systems. Basic microwave experiments. PREREQ: ELE 232, 324.

ELE 425 **Microwave Engineering** 3 Y

Transient analysis of TEM lines, time domain reflectometer. Parameters of coaxial, strip and microstrip lines. Scattering parameters. Coupled lines, waveguides, cavities. Experimental illustration of microwave engineering concepts. Use of network and spectrum analyzers. PREREQ: ELE 424.

ELE 431 **Analog Circuits and Systems** 3 Y

Amplifiers using bipolar and field-effect transistors. Low- and high-frequency small-signal models. Multistage amplifiers, stabilization and noise considerations. PREREQ: ELE 333.

ELE 458 **Data Networks: Basic Principle** 3 Y

Crosslisted with: CIS 458, CSE 458
Data communication networks, multilayer network architecture, data transmission fundamentals, network protocols, local and wide area networks, transport and application protocols.

ELE 464 **Introduction to VLSI Design** 3 Y

Crosslisted with: CSE 464
MOS VLSI technologies. CMOS digital circuits. Layout design. Simulation. Realization of digital subsystems-adders, memory, etc. Opportunities for chip fabrication and testing.

ELE 470 **Experience Credit** 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

ELE 490 **Independent Study** 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

ELE 497 **Senior Design Project** 1-4 Y

Integrates skill in analysis, design, and presentation through one extensive project selected from a list generated by course advisors. R

ELE 512 **Linear Control Systems** 3 Y

System representation, time and frequency domain analysis of linear systems, stability. Effects of feedback on system Performance. Controller design using root locus, Nyquist, and Bode methods. PREREQ: ELE 351.

ELE 514 **Electric Power Systems** 3 SI

Equivalent circuits for the components of a power system. Analysis of balanced and unbalanced polyphase systems. Symmetrical components and sequence networks. Fault studies, load-flow analysis, stability considerations.

ELE 516 **Control of Robots** 3 Y

Crosslisted with: CIS 543
Kinematics, dynamics, and control of mobile and/or manipulator robots. Path planning, actuators, sensors, human/machine interface. Two hours lecture and two hours laboratory weekly. Design project.

ELE 524 **Introduction to Applied Optics** 3 SI

Geometrical optics, two-dimensional Fourier transforms and wave propagation, optical fibers, Fresnel and Fraunhofer diffraction, interferometry, imaging and Fourier transforming properties of lenses, image processing, complex filters and holography. Includes laboratory: design and experiment. PREREQ: ELE 424 OR ELE 452.

ELE 525 **Electromagnetic Compatibility** 3 SI

Introduction to electromagnetic compatibility (EMC). EMC requirements for electron systems. Nonideal behavior of circuit components. Signal spectra. Maxwell equations. Antenna theory. Control of radiated and conducted emissions. PREREQ: ELE 324, 351.

ELE 541 **Integrated Circuits** 3 IR

Principles of design and processing of monolithic and hybrid integrated circuits. Current technology and its scientific basis. PREREQ: ELE 346.

ELE 551 Communication Systems 3 Y
Communications systems. Amplitude modulation techniques. Angle modulation or frequency modulation. Sampling and quantization of analog signals. Basic digital modulation techniques. Introduction to noise. System modeling evaluating performance using industry tools.
PREREQ: ELE 351.

ELE 553 Communic Engin 3 IR
Integration of networks and electronic devices into apparatus and systems for communications. Transmitters, receivers, antennas, modulation, noise, propagation.

ELE 591 Special Problems in Electrical Engineering 1-4 SI
Students work on special projects. Instructors present new or special material. R

ELE 599 Electrical Engineering Laboratory IV 3 Y
Comprehensive projects selected from the student's area of interest. One hour of consultation and six hours of laboratory a week. May be repeat for credit.
PREREQ: ELE 391. R

Engineering And Computer Science

ECS 100 Selected Topics 1-3 Y
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R11, 36 credits maximum

ECS 101 Introduction to Engineering and Computer Science 3 Y
Gateway course: Discussion of disciplines within the college, technical communication, presentation of technical results, professional behavior, ethics, problem solving, modeling, and data analysis. Laboratory topics: computers, computer language, and software packages.

ECS 102 Introduction to Computing 3 Y
Computing concepts. Principles of programming. Applications of computing concepts to problem solving in engineering and computer science. Laboratory topics will include problem solving projects from various disciplines within the college.

ECS 104 Engineering Computational Tools 3 Y
Elementary numerical techniques for root finding, sets of equations, curve fitting, differentiation, integration. Programming concepts: conditional branching, loops, etc. Examples of engineering calculations. Use of Excel and Matlab.
COREQ: MAT 295.

ECS 105 LCS SummerStart Supplemental Math Workshop 1 S
Workshop designed to supplement the theory taught in math courses. Design problems will incorporate course work. Limited enrollment/special permission. R7, 8 credits maximum

ECS 109 LCS SummerStart Seminar 1 SS
Designed to assist first-year students with their transition from high school to the University setting. Introduction of resources that will assist in the student's academic, social, cultural, and personal development through interactions with various representatives.

ECS 125 Survey of Engineering Problems 2-3 IR
Current design and research problems in engineering presented by faculty members actively working on these problems. Opportunities for student participation and individual project.

ECS 200 Selected Topics 1-3 Y
Exploration of topics not covered by the standard curriculum but of interest to faculty and students in a particular semester. R11, 36 credits maximum

ECS 201 Academic Excellence Workshop for Statics 1 Y
Designed to supplement the theory taught in the static (ECS 221) course. Design problems will incorporate course work. Limited enrollment/special permission.
COREQ: ECS 221. R2, 3 credits maximum

ECS 202 Academic Excellence Workshop for Dynamics 1 Y
Designed to supplement the theory taught in the dynamics course (ECS 222). Design problems will incorporate course work. Limited enrollment/special permission.
COREQ: ECS 222. R2, 3 credits maximum

ECS 203 Introduction to Technology 3 Y
Crosslisted with: STS 203
Basic engineering principles behind some of today's rapidly changing technologies. The capabilities, limitations, and application of these technologies to audio and TV systems, CD players, communications' satellites, radar, computers, and the electric power system. For nonspecialists.

ECS 221 Statics 3 Y
Fundamentals of static equilibrium. Vector algebra. Forces, moments, equivalent force systems. Free body diagrams and equilibrium problems in two and three dimensions. Analysis of structures and machines. Centroids and moments of inertia.
PREREQ: MAT 296, PHY 211.

ECS 222 Dynamics 3 Y
Dynamics of a particle. Newton's law and D'Alembert's principle. Plane motion. Cartesian, polar, and local coordinates. Energy and momentum methods. Motion of a rigid body. Review of vector algebra and moments of inertia.
PREREQ: MAT 296.

ECS 290 Independent Study 1-6
In depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

ECS 301 Understanding Contemporary Technology 3 IR
Survey of significant areas of technology: scientific bases, operating principles, physical capabilities and performance, economic limitations, social impact. Areas include: fuel, energy, materials, pollution control, environmental modification. May be taken in either order with 302.

ECS 302 Understanding Contemporary Technology 3 IR
Survey of significant areas of technology: scientific bases, operating principles, physical capabilities and performance, economic limitations, social impact. Areas include: fuel, energy, materials, pollution control, environmental modification. Requisites: ?May be taken in either order with ECS?301.

ECS 325 Mechanics of Solids 4 S
Theory of deformation, stress, stress resultants, transformation. Elastic and inelastic constitutive behavior. Equilibrium. Tension and torsion of bars; flexure and shear of beams; pressure vessels. Thermoelasticity. Elastic and inelastic stability. Energy methods.
PREREQ: ECS 221; COREQ: MAT 397.

ECS 326 Engineering Materials, Properties, and Processing 3 S
Introduction to the properties and applications of engineering materials with emphasis on structure-property-processing relationships; fundamentals of structure, properties, and processing; materials selection for design; case studies of specific engineering applications.

ECS 353 Automotive Technology for Non-Engineers 3 IR
A study of the modern automobile, using a recent model car as a laboratory example. Description and demonstration of engines, transmissions, body, suspension, brakes, steering, safety equipment, and fuel systems. Federal Motor Vehicle Standards. Open only to non-engineering sophomore, junior, or senior standing students.

ECS 370 Professional Practice 0-3 S
Full-time practical engineering or computer science work experience, with a participating employer, that is directly related to the student's field of study and is of a semester's duration. Student must be in good standing in the College of Engineering and Computer Science Cooperative Education Program. R

ECS 371 International Professional Practice 0-3
A supervised work experience in a laboratory at one of several European universities near an SU Abroad center. Offered only overseas through Syracuse University Abroad.

ECS 375 Academic Excellence Facilitator Forum 1 S
Designed to give facilitators the opportunity to discuss issues and concerns within their weekly workshop. Facilitators will work as a group to discuss, analyze, and problem solve participant issues. R7, 8 credits maximum

ECS 391 Legal Aspects of Engineering and Computer Science 3 SI

Legal issues related to engineering and computer science are investigated using case studies, research projects, and term papers. Topics include patents, copyright, licenses, trade secrets, technology transfer, computer crime, contracts, and product liability.

ECS 392 Ethical Aspects of Engineering and Computer Science 3 S

Ethical issues related to engineering and computer science studied, including professionalism, collective and individual moral responsibility, codes of ethics, whistle blowing, conflict of interest, pluralism in the workplace, product liability, and employer-employee expectations.

ECS 400 Selected Topics 1-3

Exploration of engineering and computer science topics not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ECS 401 Spec. Projects-Solving Program 3 Y

Projects sponsored by the greater University community are completed by interdisciplinary teams in consultation with a faculty advisor. Open to juniors and seniors.

ECS 441 Leonardo da Vinci: Artist and Engineer 4 O

Crosslisted with: HOA 425

Interdisciplinary exploration of the life and work of Leonardo da Vinci (1452-1519). Supplemented by required field trip to Europe. Special application required.

ECS 470 Professional Practice 0-3 S

Full-time practical engineering or computer science work experience, with a participating employer, that is directly related to the student's field of study and is of one semester's duration. R

ECS 490 Independent Study 1-6

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

ECS 498 Concepts & Issues of Tech. 3 IR

Role of engineering in modern society. Selection of criteria. Methods of problem analysis and decision making. Case studies. Open to University students with junior or senior standing

ECS 525 Probability for Engineers 3 IR

Sample spaces, events, and probabilities. Conditional probability and independence. Random variables, random vectors. Probability distributions and densities. Expectations. Moment-generating functions. Introduction to data analysis. Engineering applications. PREREQ: MAT 398.

ECS 526 Statistics for Engineers 3 Y

Point estimation, confidence intervals, simple hypothesis testing, nonparametric tests, curve fitting and regression, analysis of variance, factorial experiments, and engineering applications.

PREREQ: ECS 525 OR MAT 521.

ECS 570 Professional Practice 0-3 S

Full-time practical engineering or computer work experience, with a participating employer, that is related to the student's field of study, and is of a semester's duration. May not be repeated. Student must be matriculated in an ECS graduate program.

Manufacturing Engineering**MFE 326 Probability and Statistical Methods for Engineers 4 IR**

Theory of probability, sampling, estimation, hypothesis testing, quality control techniques. Experimental design and analysis.

PREREQ: MAT 398.

MFE 331 Manufacturing Processes 3 Y

Fundamentals of casting, forming, machining, joining, assembly, and other manufacturing processes. Measurement and gauging, integration of manufacturing with other disciplines, design for manufacture, the manufacturing organization, laboratory experience.

PREREQ: MAE 184.

MFE 429 System Modeling and Optimization 3 SI

Introduction to system modeling and optimization techniques and their applications. Topics include linear programming and its extensions, integer programming, dynamic programming, stochastic modeling, simulation and other system modeling techniques.

PREREQ: MAT 397, MAT 521 OR EQUIVALENT.

MFE 436 Robotics in Manufacturing 3 SI

Topics include requirements for robotic application, mechanical considerations, and effectors, sensors, software, applications, and optimization of robotic systems. Laboratory experiments included.

MFE 453 Production Planning and Control 3 SI

Problems in designing and controlling manufacturing facilities. Layout design, line balancing, production planning, sequencing, material-requirements planning, group technology, and quality control.

PREREQ: MFE 326, 429.

MFE 470 Experience Credit 1-3

Participation in a discipline or subject-related experience. Students will be evaluated by written and/or oral report. R

MFE 472 Synthesis of Manufacturing Systems 4 IR

Formulation and execution of manufacturing engineering design projects requiring information from several disciplines.

PREREQ: MEE 331, 352, 355, 371, MFE 429.

MFE 534 Statistical Quality Control 3 IR

Controlling product quality through the control of the manufacturing process and acceptance sampling. Industrial project required.

PREREQ: MFE 326.

MFE 535 Introduction to Manufacturing Systems 3 SI

Numerical control (NC), computer assisted NC programming, NC programming using CAD/CAM system, robot programming, manufacturing automation protocol (MAP), manufacturing cells, flexible manufacturing systems (FMS), and computer integrated manufacturing (CIM) systems. Laboratory assignments.

PREREQ: MAT 296.

MFE 557 Management Decisions in Manufacturing 3 IR

General management issues regarding the primary importance of manufacturing technology, economic decision making, organization theory, and the management of manufacturing technology.

MFE 595 Multidisciplinary Analysis and Design 3 IR

Interdisciplinary subjects related to engineering, information technology, networking, AI and HTTP://WWW-based tools. The objective is to use different MAD tools in the product realization process.

PREREQ: MEE 571.

Materials Science**MTS 421 Introduction to Ceramics 3 SI**

Ceramics as a class of materials composed of inorganic, nonmetallic components. Development, utilization, and control of properties of ceramic materials.

MTS 431 Physical Metallurgy 3 SI

Properties of metals and alloys. Transformations and their consequences in practical systems.

PREREQ: MTS 321.

MTS 471 Materials for Engineering Applications 3 SI

Deformation and fracture of metals, ceramics, and polymers. Materials for applications at high temperatures, corrosive environments, high strengths, and light weights. Prepares students to select materials for certain engineering functions.

MTS 533 Introduction to Theory of Materials 3 IR

Theoretical concepts that describe the electronic structure of crystals. Models of electron and ion interactions to correlate electronic, magnetic, and thermal properties of metals, alloys, and compounds.

PREREQ: MTS 321.

MTS 537 Introduction to Diffusion in Solids 3 IR

Diffusion mechanisms, diffusion equations and their methods of solution.

MTS 570 Nondestructive Testing 3 IR
Determination of defects in structural materials. Nondestructive inspection methods include noise emission techniques, X-ray radiography, leak detectors, ultrasonics, magnetic and electrical methods. R

MTS 581 X-Ray Diffraction 3 SI
Kinematic theory of X-ray diffraction and its applications in materials science. Experimental methods. Integrated intensity, line broadening, and peak shift analyses. Crystal structure. X-ray effects of imperfections in crystals.

Mechanical And Aerospace Engineering

MAE 184 Engineering Graphics and Computer-Aided Design 3 Y
Fundamentals of projections and intersections of surfaces. Dimensioning and tolerancing. Different solid and surface modeling techniques. Use of a computer-aided design system. Design problems.
PREREQ: ECS 101.

MAE 251 Thermodynamics 4 Y
Basic concepts in engineering thermodynamics. Thermodynamic properties of solids, liquids, and gases. First and second laws of thermodynamics. Reversible and irreversible processes. Entropy equation. Energy analysis of basic cycles.
PREREQ: PHY 211.

MAE 315 Mechanical and Aerospace Engineering Laboratory 3 Y
Laboratory experiments in engineering and science topics. Introduction to statistical evaluation of data. Experiments will be selected from various topics including solid mechanics, fluid mechanics, digital signal processing and vibrations.
PREREQ: ECS 325; COREQ: MAE 341.

MAE 321 Dynamics of Mechanical Systems 3 Y
Formulation of dynamics problems using Newton's Laws with an introductory study of analytical dynamics. Vibration of linear systems. Computational techniques for predicting system response.
PREREQ: ECS 325.

MAE 355 Fundamentals of Heat and Mass Transfer 4 Y
Crosslisted with: BEN 341, CEN 341
Principles of heat and mass transfer. Conduction, convection, and radiation. Thermal properties of materials. Solutions of steady state and transient heat and mass transfer problems. Diffusion with chemical reaction. Convective mass transfer. Prereq: CEN 333; MAE 341 or CIE 327.
PREREQ: CEN 333, MAE 341 OR CIE 327.

MAE 373 Analysis and Design of Structures 4 IR
Elements of the plane theory of elasticity and strength of materials. Application to problems of mechanical and aerospace structures.
PREREQ: CIE 325.

MAE 415 Mechanical and Aerospace Engineering laboratory III 2 IR
Experiments in composite structures and instrumentation performed in small groups. Written and oral reports.
PREREQ: MEE 373 OR AEE 373.

MAE 457 Automotive Engineering for ECS Students 3 Y
An engineering study of the modern automobile, using a recent model car as a laboratory example. Analysis of engine, transmission, body, suspension, brakes, steering safety equipment, and fuel systems. FMVS Standards.

MAE 483 Applied Environmental Acoustics and Noise Control 3 Y
Double Numbered with: MAE 683
Introductory to environmental acoustics, sound propagation, psychoacoustics, noise criteria for design, noise sources, absorption, noise isolation, design of critical spaces, sound measurement, vibration isolation, product noise ratings, sound quality.
PREREQ: PHY 101.

MAE 536 Composite Materials 3 E
Design, analysis, and manufacturing of fiber-reinforced composite materials. Emphasis is on polymeric composites for general aerospace and automotive applications, and on ceramic matrix composites for hypersonic applications.
PREREQ: ECS 325.

MAE 545 Applications of Fluid Mechanics 3 SI
Selected topics in applied fluid mechanics, to be determined by the instructor. Tools employed include control volume analysis, Bernoulli equation, exact and simplified solutions of the Navier-Stokes equations, and test correlations.
PREREQ: MAE 341.

MAE 548 Engineering Economics and Technology Valuation 3 Y
Value-based assessment and management of engineering/technology projects: equivalence; discounted cash flow; taxes/depreciation; financial statements. Risk-adjusted valuation: risk/uncertainty in staged projects; Monte Carlo simulations; decision trees; real options; project portfolio management.
PREREQ: MAT 296.

MAE 551 Energy Conversion 3 SI
Energy demand and resources. Fundamentals of combustion. Power plants, refrigeration systems. Turbines and engines. Advanced systems. Direct energy conversion. Alternate energy sources. Energy storage. Costs and environmental impact.

MAE 552 Building Environmental Measurements and Controls 3
Fundamentals of building ventilating methods for measuring and controlling indoor environmental conditioning, thermal comfort, and indoor air quality.
PREREQ: MAE 341, 355.

MAE 553 HVAC Systems Analysis and Design 3
Fundamentals of moist air properties, basic air conditioning processes, heat transfer in building structures, heating and cooling load calculations, and air distribution systems.
PREREQ: MAE 251.

MAE 554 Principles of Refrigeration 3
Basic thermodynamic analysis of refrigeration cycles. Components selection. Environmental issues and recent developments in the refrigeration and the air conditioning industry.
PREREQ: MAE 251.

MAE 571 Applications of Computational Fluid Dynamics 3 SI
Use of commercial Computational Fluid Dynamics (CFD) softwares to solve problems of practical interest. Modeling of fluid/thermal systems. Introduction to CFD algorithms. Simulation, evaluation, and interpretation of CFD results.

MAE 573 Application of Finite Element Analysis 3
Formulation of mechanics and heat transfer problems by finite element analysis. Application of the finite element method using commercial software in the static and dynamic analysis of mechanical components.
PREREQ: MAE 373.

MAE 585 Principles of Turbomachines 3 SI
Crosslisted with: AEE 685, MEE 685
Fluid dynamics and thermodynamics of turbomachines. Performance characteristics and analysis of axial and radial turbomachines. Cascade theory. Radial equilibrium equation. Meridional flow analysis. Three dimensional flow characteristics of turbomachines.
PREREQ: MAE 341 AND 251.

MAE 587 Design of Solar Energy System 3 IR
Fundamentals of solar radiation, collectors and storage. Design of solar space heating, cooling; water heating systems. Study of solar electric systems. Economics of solar design; application to heat pumps, energy conservation techniques.

Mechanical Engineering

MEE 270 Experience Credit 1-6 S
Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

MEE 290 Independent Study 1-6 S
In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by permission of supervising instructor or instructors and the department. R

MEE 331 Manufacturing Processes 3

MEE 332 Introduction to Machine Design and Manufacturing 4 Y

Introduction to the design process. Design, analysis, and application of machine components such as springs, gears, shafts, keys, drive chains, and belts. Manufacturing processes required to produce machine components. Open-ended design projects required.

PREREQ: ECS 325; COREQ: ECS 326.

MEE 416 Mechanical Engineering Laboratory 1 Y

Experiments in air conditioning, refrigeration, and turbomachines performed in small groups. Written and oral reports.

PREREQ: MAE 251, AND MAE 315.

MEE 454 Air Conditioning 3 SI

sychro-metrics, air conditioning for human comfort and industrial processes, heating and cooling loads, air distribution, a/c systems, design project.

PREREQ: MAE 251.

MEE 456 Applications of Heat Transfer 3 IR

Applications of principles of heat transfer to analysis and design of heat-exchange and dissipation devices. Boiling and condensation heat transfer. Aspects of environmental heat transfer, such as thermal pollution and its control.

PREREQ: MAE 355.

MEE 470 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

MEE 471 Synthesis of Mechanical Systems I 3 S

First capstone design course. Students formulate open-ended design projects. Selected projects require assimilation of knowledge from several areas within mechanical engineering. Oral and written reports.

MEE 472 Synthesis of Mechanical Systems II 4 Y

Continuation of MEE 471.

MEE 473 Engineering Design Analysis 3 IR

Design problems that integrate the principles of diverse engineering courses. Use of ANSYS as a modeling and analysis tool.

MEE 475 Special Design Project 3 SI

Special design project carried out by student under supervision of staff member.

MEE 480 International Course 1-12 IR

Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the S.U. academic department to assign the appropriate course level, title, and grade for the student's transcript. R

MEE 486 Introduction to Nuclear Power 3 IR

Application of engineering principles to nuclear power reactors. Relation of nuclear power to present and future world energy sources. Elements of reactor theory. Power removal, utilization, and economics. Design considerations and examinations of nuclear power plants.

PREREQ: MAE 251.

MEE 487 Design of Solar-Energy Systems 3 IR

Solar radiation, collectors, and storage. Design of solar space heating, cooling; water-heating systems. Solar electric systems. Economics of solar design. Applications of heat pumps, energy conservation techniques.

PREREQ: MAE 251.

MEE 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

MEE 524 Microprocessors in Mechanical and Manufacturing Engineering 3 SI

Introduction to the microprocessor and its various configurations used in controlling machine operations, data acquisition, etc. Project-oriented work involving program development in machine, assembly, and basic languages. Micro-computers used for off-line program development. Not open to electrical and computer engineering students.

MEE 571 Computer Aided Design 3 SI

Use CAD software and hardware in the solution of mechanical engineering problems. Computer graphics, computer aided geometry (space curves, splines, patches) design, solid modeling, optimization and an introduction to finite element method.

PREREQ: ECS 102; MAT 331.

MEE 584 Noise from Industrial Flow Systems 3 IR

Basic fluid mechanics and acoustics. Noise generation by fluid flows and their interaction with solid bodies. Types of noise sources. Analysis and control of such flow noise sources in manufacturing, transportation, propulsion, power generation, and industrial control systems.

PREREQ: MAE 341.

MEE 585 Fuel & Energy Utilization 3

Neuroscience

NEU 415 Sensory Neuroanatomy 3 E

Double Numbered with: NEU 615

Introduction to neurons and neuroanatomical techniques. Neuronal organization of sensory systems; peripheral receptors and central pathways involved in hearing, touch, smell, and taste.

PREREQ: NEU 211 OR PSY 223.

NEU 421 Cellular Neuroscience 3 IR

Double Numbered with: NEU 621

Functional cellular anatomy of neurons: structure; interactions; ion channels; neurotransmitters and receptors; growth, differentiation, and survival; axonal migration, pathfinding and connectivity. NEU 621 students will be required to complete additional work.

Faculty

Riyad Aboutaha, Associate Professor
Ph.D., University of Texas at Austin, 1994
Structural design, evaluation, and rehabilitation; structural concrete and composites; infrastructure renewal

Erument Arvas, Professor
Ph.D., Syracuse University, 1983
RF/Microwave devices and circuits, electromagnetic scattering

Rebecca Bader, Assistant Professor
Ph.D. Materials Science, Oregon State University, 2006
Drug delivery; Molecular biotechnology; Nanotechnology

Karl Behnke, Adjunct
M.S., University of Houston at Clear Lake, 1991
Statistics and quality control

Shobha Bhatia, Laura J. and L. Douglas
Meredith Professor
Ph.D., University of British Columbia, 1980
Geosynthetic applications, image processing, soil dynamics, geo-environmental

Howard Blair, Associate Professor
Ph.D., Syracuse University, 1980
Knowledge Representation and Automated, hybrid systems, formal methods and verification

Edward Bogucz Jr., Associate Professor
Ph.D., Lehigh University, 1985
Fluid mechanics, heat transfer, numerical methods

Frederick Carranti, Instructor
M.S.M.E., Syracuse University, 1994
Licensed professional engineer, energy system analysis, manufacturing processes

Joseph Chaiken, Professor, Chemistry
Ph.D. University of Illinois 1982
Spectroscopy

Stephen Chapin, Associate Professor
Ph.D., Purdue University, 1993
Operating systems, distributed systems, computer networking, computer security, system assurance

Biao Chen, Associate Professor
Ph.D., University of Connecticut, 1999
Signal processing, Communication and Information Theory

C.Y. Roger Chen, Professor, Electrical Engineering and Computer Science: Director, Computer Engineering Programs
Ph.D., University of Illinois, 1987 CAD for VLSI physical synthesis and multimedia information technologies

Hao Chen, Research Assistant Professor
Ph.D. Syracuse University 2007
Signal and image processing and communications, including wireless sensor networks (WSN), stochastic resonance (SR), detection and estimation, remote sensing and image processing.

Shiu-Kai Chin, Professor
Ph.D., Syracuse University, 1986
Formal verification, security, access control

Lisa Cleckner, Research Faculty
Ph.D., University of Michigan, 1995
Environmental health sciences

Samuel Clemence, Laura J. and L. Douglas
Meredith Professor
Ph.D., Georgia Institute of Technology, 1973
Soil mechanics, geotechnical engineering, foundation engineering

Andria Costello Staniec, Associate Professor, Civil and Environmental Engineering Department
Ph.D., California Institute of Technology, 1999
Environmental biology

Thong Dang, Professor
Ph.D., Massachusetts Institute of Technology, 1985
Theoretical/ computational fluid dynamics of internal/external flows

John Dannenhoffer, Associate Professor
Sc.D., Massachusetts Institute of Technology, 1987
Computational fluid dynamics, modeling and analysis in industry, collaborative education

Andrew Darling, Assistant Professor
Ph.D. Mechanical Engineering, Drexel University, 2005
Biomaterials/Tissue engineering; Molecular biotechnology; Nanotechnology

Barry Davidson, Laura J. and L. Douglas
Meredith Professor; Professor, Mechanical and Aerospace Engineering
Ph.D., Texas A&M University, 1988
Mechanics of composite materials, fracture mechanics, solid mechanics

Cliff Davidson, Thomas C. and Colleen L.
Wilmot Professor of Civil and Environmental Engineering
Ph.D. California Institute Of Technology

R. Leland Davis, Research Faculty
M.S., University of Michigan
Indoor environmental quality

Kimberley Driscoll, Research Faculty
M.S.E.G., Syracuse University, 1991
Environmental systems engineering

Charles Driscoll Jr., University Professor
Ph.D., Cornell University, 1979
Aquatic chemistry, biogeochemistry, environmental modeling

Wenliang (Kevin) Du, Associate Professor
Ph.D., Purdue University, 2001
Computer system and network security; data mining (security and privacy issues); security in wireless ad-hoc and sensor networks; security education

Gino Duca, Adjunct Instructor
M.S. Chemical Engineering Syracuse University 2009
Process Design, Thermodynamics

Charles Ebbing, Adjunct Professor
M.S.E.E., SUNY, University at Buffalo, 1966
Acoustic consulting, sound quality, community noise, noise criteria, sound measurements, test facilities, creative problem solving

Mahmoud EL Sabbagh, Professor of Practice
Ph.D. University of Maryland College Park 2002
Modeling, optimization, and design of RF/Microwave components such as: low cost miniaturized and tunable microwave filters for radar and satellite, miniaturized antennas, and antennas with pattern diversity for wireless devices; Development and design of microwave sensors for material characterization; Model, design, and implement metamaterials as strong surface-wave suppressor used for EMI/EMC applications or redirection of electromagnetic waves; Material characterization; RF/microwave measurements and calibration; Numerical analysis and scientific computations for electromagnetic applications using MMT, MOM, FEM, and FDFD; Electrical characterization of nanomaterials and their integration in microwave components; Thin film characterization using Scanning Electron Microscopy (SEM) and Transmission Electron Microscopy (TEM).

Gustav Engbretson, Professor Emeritus
Ph.D. Zoology, University of Oklahoma, 1976

Ehat Ercanli, Part-time Assistant Professor
Ph.D., Case Western Reserve University, 1997
VLSI, computer-aided design, design automation for digital systems, computer architecture

Makan Fardad, Assistant Professor
Ph.D., University of California, Santa Barbara, 2006
Structured control of spatially distributed and large-scale systems, input-output analysis of PDEs with periodic coefficients, parametric resonance in spatio-temporal systems

Bart Farell, Research Associate Professor
Ph.D., McGill University, 1977
Affiliate Member, Institute for Sensory Research. Visual psychophysics, visual object recognition

James Fawcett, Part-time Associate Professor
Ph.D., Syracuse University, 1981
Software, software complexity, re-use, salvage

Julian Fernandez, Research Assistant Professor, Biomedical and Chemical Engineering; Institute for Sensory Research
Ph.D., National University of LaPlata (Argentina), 1998
Biological evolution models

Prasanta Ghosh, Professor
Ph.D., Pennsylvania State University, 1986
Microelectronics, solidstate devices, optoelectronics, thin film processes, power engineering

Jeremy Gilbert, Professor
Ph.D. Metallurgical and Materials Science,
Carnegie Mellon University 1987
Biomaterials/Tissue engineering; Corrosion
and electrochemistry; Multi phase systems;
Nanotechnology

Eileen Gilligan, Adjunct
Ph.D., Syracuse University, 1983
Environmental geology

Mark Glauser, Professor; Associate Dean
for Research and Doctoral Programs
Ph.D., University at Buffalo, SUNY, 1987
Turbulence, flow control, fluid mechanics of
built environments, dynamical systems,
unsteady aerodynamics, heat transfer,
acoustics, applied mathematics, signal
processing and instrumentation

Amrit Goel, Professor
Ph.D., University of Wisconsin, 1968
Software engineering: data mining
applications, radial basis function models

Carlos Hartmann, Professor
Ph.D., University of Illinois, 1970
Development of the theory of decoding and
the design of practical decoding algorithms for
error-correcting codes, fault detection in
digital systems

Julie Hasenwinkel, Associate Professor &
Bioengineering Program Director
Ph.D. Biomedical Engineering, Northwestern
University 1999.
Biomaterials/Tissue engineering; Complex
fluids, soft condensed matter, rheology; Drug
delivery; Multi phase systems;
Nanotechnology

James Henderson, Assistant Professor
Ph.D., Mechanical Engineering, Stanford
University, 2004
Biomaterials/Tissue engineering; Indoor air
quality/environmental engineering; Molecular
biotechnology

John Heydweiller, Associate Professor &
Chemical Engineering Program Director
Ph.D. Chemical Engineering, Kansas State
University 1977
Mathematical and numerical analysis

Hiroshi Higuchi, Professor; Director,
Aerospace Engineering Program
Ph.D., California Institute of Technology,
1977
Aerodynamics/hydrodynamics of vehicles,
three-dimensional boundary layers, flow
separations and free shear flows, acoustics,
compressible flows

Can Isik, Professor, Senior Associate Dean,
College of Engineering and Computer Science
Ph.D., University of Florida, 1985
Applications of Neural Nets and Fuzzy Logic,
Intelligent Systems, Controls, Medical
Instrumentation, Environmental Control
Systems

Chris Johnson, Associate Professor, Civil
and Environmental Engineering; Director,
Environmental Engineering Program
Ph.D., University of Pennsylvania, 1989
Environmental geochemistry, soil chemistry,
statistical modeling

Kaveh Jokar Deris, Assistant Professor
Ph.D., University of Victoria, Canada, 2008
Computer architecture and low power design;
parallel computing and chip multi-core
processors, VLSI design: semiconductor
fabrication and ASIC design,
firmware/hardware digital design: FPGA
prototyping and real-time systems

Kevah Jokar Deris, Assistant Professor
Ph.D. University of Victoria Canada, 2008
Computer Architecture and Low Power
Design: Parallel Computing and Chip Multi-
core Processors; VLSI Design: Semiconductor
Fabrication and ASIC Design;
Firmware/Hardware Digital Design: FPGA
Prototyping and Real-Time Systems

Swiatoslaw Kaczmar, Adjunct
Ph.D., Michigan State University, 1983
Toxicology and environmental disposition of
chemical and physical contaminants

H. Ezzat Khalifa, Professor, Mechanical and
Aerospace Engineering; Director, NY STAR
Center of Environmental Quality Systems
Ph.D., Brown University, 1976
Thermofluid dynamics of environmental
control and energy systems, fluid machinery,
valuation of technology

Philipp Kornreich, Professor
Ph.D., University of Pennsylvania, 1967
Fiber light amplifiers, lasers, optical fibers,
image propagation through fibers

Donald Lake, Adjunct
B.S., SUNY at Buffalo, 1970
Urban stormwater and erosion control

Andrew Lee, Assistant Professor
Ph.D., University of Maryland, College Park,
1998
Artificial intelligence, data structures,
operating systems, software engineering,
computer theory, computer security

Jay Lee, Associate Professor; Director,
Electrical Engineering Programs
Ph.D., Massachusetts Institute of Technology,
1985
Electromagnetic fields and waves, microwave
remote sensing, antennas and propagation,
waves in complex media

Raymond Letterman, Professor, Civil and
Environmental Engineering Program
Ph.D., Northwestern University, 1972
Physical-chemical separation in water and
wastewater treatment

Alan Levy, Professor, Department Chair,
Director, Mechanical Engineering Program
Ph.D., Columbia University, 1982
Theoretical and applied mechanics, applied
mathematics

Jacques Lewalle, Associate Professor
Ph.D., Cornell University, 1981
Fluid mechanics, thermodynamics

Yingbin Liang, Assistant Professor
Ph.D. University of Illinois at Urbana-
Champaign, 2005
Wireless Communications and Networks,
Information Theory, Probabilistic Graphical
Models, Information Security, Scheduling in
Mobile Ad-hoc Wireless Networks, Resource
Allocation for Wireless Networks, Cognitive
Radio Wireless Networks

Eric Lui, Laura J. and L. Douglas Meredith
Professor, Associate Professor, Chair
Ph.D., Purdue University, 1985
Computer-aided analysis and design of
structures, structural stability, structural
dynamics, earthquake engineering

Yan-Yeung Luk, Assistant Professor,
Chemistry
Ph.D. University of Chicago 2001
Bio-organic and chemical biology;
Nanomaterials; Biosurfaces

James Mandel, Adjunct
Ph.D., Syracuse University, 1967
Composite materials, fiber reinforced
concrete, curved bridge design, finite element
analysis

Duane Marcy, Part-time Assistant Professor
Ph.D., Rensselaer Polytechnic Institute, 1996
Semiconductor manufacturing, processes, and
devices; molecular electronics using the
protein bacteriorhodopsin with applications of
volumetric and holographic memories and thin
films for semiconductor-protein based devices

George Martin, Professor
Ph.D. Chemical Engineering, University of
Minnesota 1976
Complex fluids, soft condensed matter,
rheology

Patrick Mather, Milton and Ann Stevenson
Professor of Biomedical & Chemical
Engineering & Director, Syracuse Biomaterials
Institute
Ph.D. Materials, University of California at
Santa Barbara 1994
Biomaterials/Tissue engineering; Complex
fluids, soft condensed matter, rheology;
Corrosion and electrochemistry; Drug
delivery; Molecular biotechnology;
Nanotechnology

Kishan Mehrotra, Professor
Ph.D., University of Wisconsin, 1971
Multisensor scene analysis, algorithms, neural
networks and genetic algorithms; earlier work
in statistical inference includes reliability
theory, coding theory, time series analysis

Chilukuri Mohan, Professor, Electrical
Engineering and Computer Science; Chair
Ph.D., State University of New York at Stony
Brook, 1988
Artificial intelligence, neural networks,
evolutionary algorithms, optimization,
pattern recognition, uncertainty

- Young Moon**, Associate Professor, Mechanical and Aerospace Engineering; Director, Institute for Manufacturing Enterprises
Ph.D., Purdue University, 1988
Manufacturing systems, machine learning, concurrent engineering
- Belal Mousa**, Adjunct
Ph.D., Syracuse University, 1994
Structural analysis and design, composite materials, computer analysis
- Vadrevu Murthy**, Professor
Ph.D., Georgia Institute of Technology, 1974
Helicopter dynamics, aeroelasticity and structural dynamics
- Dawit Negussey**, Professor
Ph.D., University of British Columbia, 1985
Geotechnical engineering, experimental soil mechanics, stress strain behavior
- Ruixin Niu**, Research Assistant Professor
Ph.D., University of Connecticut, 2001
Statistical signal processing and communications; data fusion and distributed detection and tracking; collaborative signal processing in wireless sensor networks; video-based change detection and object tracking
- Kent Ogden**, Part Time Associate Professor
Ph.D., Medical College of Wisconsin, 1999
- Jae Oh**, Associate Professor, Electrical Engineering and Computer Science; Director, Computer Science Programs
Ph.D., University of Pittsburgh, 2000
Cooperation in multi-agent systems, application of game theory and artificial intelligence techniques to the Internet and distributed computer systems, evolutionary algorithms, game theory, search and optimization algorithms, machine learning algorithms
- Susan Older**, Associate Professor
Ph.D., Carnegie Mellon University, 1996
Semantics of programming languages, concurrency, fairness, logics of programs, formal methods
- Lisa Osadciw**, Assistant Professor
Ph.D., University of Rochester, 1998
Spread spectrum signal design, wireless communications and Radar Systems, radar signal processing, multi-sensor fusion processing, digital receivers, adaptive and statistical signal processing, tracking
- Emmet Owens Jr.**, Adjunct Associate Professor
M.S.C.E., Colorado State University 1977
Hydraulics, environmental fluid mechanics, water quality modeling
- Harish Palanhandalam-Madapusi**, Assistant Professor
Ph.D., University of Michigan, 2007
Control, system identification, Kalman filtering, estimation
- Daniel Pease**, Associate Professor
Ph.D., Syracuse University, 1981
Design and development of shared and distributed parallel systems, software and tools; performance optimization for multi-thread client/server application in C, C++, Ada, Java, and .NET applications on different parallel architectures, including mobile wireless systems and cyber security on mobile systems
- Peter Plumley**, Research Associate Professor
Ph.D., University of California, Santa Cruz, 1984
Science education, K-12 outreach
- Leonard Popyack Jr.**, Research Associate Professor
Ph.D., Binghamton University, 1998
Watermarking, steganography, information attack detection, information security system architectures
- Dacheng Ren**, Assistant Professor
Ph.D., Chemical Engineering, University of Connecticut, 2003
Biomaterials/Tissue engineering; Corrosion and electrochemistry; Indoor air quality/environmental engineering; Molecular biotechnology; Sustainable energy production; Systems biology/metabolic engineering
- Philip Rice**, Professor Emeritus
Ph.D. Chemical Engineering, University of Michigan, 1963
- Jorge Romeu**, Research Professor
Ph.D., Syracuse University, 1990
Statistical modeling, data analysis, simulation modeling, operations research
- Utpal Roy**, Professor
Ph.D., Purdue University, 1989
Computer-integrated design and manufacturing, development and application of operations research, finite-element methods, geometric modeling, computational geometry, artificial intelligence techniques
- James Royer**, Professor
Ph.D., State University of New York at Buffalo, 1984
Theory of the computational complexity of higher-type functionals, structural computational complexity theory, computational learning theory, biological computing
- O. Salem**, Abdallah H. Yabroudi Professor of Civil and Environmental Engineering
Ph.D. University of Alberta
- Ashok Sangani**, Professor
Ph.D., Chemical Engineering, Stanford University, 1982
Complex fluids, soft condensed matter, rheology; Molecular biotechnology; Multiple phase systems; Mathematical and numerical analysis
- Suresh Santanam**, Adjunct, Civil and Environmental Engineering, Biomedical and Chemical Engineering; Associate Director, Syracuse Center of Excellence in Environmental and Energy Systems
Sc.D., Harvard University, 1989
Air pollution, hazardous wastes management
- Tapan Sarkar**, Professor
Docteur Honoris Causa de l'Universite Blaise Pascal, France; Docteur Honoris Causa, Politechnic University of Madrid, Spain, 2004; Ph.D., Syracuse University, 1975
Analysis and design of electromagnetic radiation from various devices like computers, radio-television towers, and satellite and cable broadcasting system; design of mobile adaptive communication systems including antennas; analysis intelligent signal processing
- Klaus Schroder**, Professor Emeritus
Ph.D., University of Göttingen, 1954
- Walter Short**, Adjunct, Biomedical and Chemical Engineering Research Professor; Department of Orthopedic Surgery, SUNY Upstate Medical University
M.D., SUNY Upstate Medical University, 1975
Orthopedic biomechanics
- Ernest Sibert**, Professor
Ph.D., Rice University, 1967
Computational logic, logic programming, and parallel computation
- Robert Smith**, Emeritus Professor and Director of the Institute for Sensory Research
Ph.D., Syracuse University, 1973
- Q. Wang Song**, Professor, Electrical Engineering and Computer Science; Director, Electrical Engineering Programs
Ph.D., Pennsylvania State University, 1989
Photonic switching, fiber communications, electro-optics, guided-wave optical devices, optical sensors
- Eric Spina**, Professor, Vice Chancellor and Provost
Ph.D., Princeton University, 1988
Fluid dynamics, compressible flows, turbulence
- Alexander Stern**, Distinguished Professor Emeritus
Ph.D., Ohio State University, 1952
Structure/permeability relationships of 'rubbery' and 'glassy' polymers; membrane processes for the separation of gases, vapors, and liquids.
- Radhakrishna Sureshkumar**, Professor, Biomedical and Chemical Engineering; Chair Ph.D. Chemical Engineering, University of Delaware 1996
Complex fluids, soft condensed matter, rheology; Multiple phase systems; Nanotechnology; Sustainable energy production; Systems biology/metabolic engineering; Mathematical and numerical analysis
- Lawrence Tavlarides**, Professor
Ph.D., Chemical Engineering, University of Pittsburgh, 1968
Indoor air quality/environmental engineering; Multiple phase systems; Sustainable energy production
- Chi Tien**, Distinguished Professor Emeritus
Ph.D., Northwestern University, 1958

Pramod Varshney, Professor, Electrical Engineering and Computer Science; Research Director, NY State Center for Advanced Technology in Computer Applications and Software Engineering (CASE)
Ph.D., University of Illinois, 1976
Communications, signal and image processing, multisensor data/information fusion, remote sensing, wireless communications, detection theory

Thomas Vedder, Instructor Emeritus, Mechanical and Aerospace Engineering; Director, Engineering Management Program
B.S., Syracuse University, 1970
Mechanical laboratory experimentation, microprocessor machine control design

Naveen Velagapudi, Adjunct
M.E., PSG Technology Institute, India, 1984
Quality management, project management, manufacturing automation

Hong Wang, Professor
Ph.D., University of Minnesota, 1985
Signal processing, communication engineering, radar/sonar systems

David Wazenkewitz, Adjunct
B.S., Syracuse University
Environmental engineering and solid waste management

Volker Weiss, Professor Emeritus, Mechanical and Aerospace Engineering, Physics; Director, Engineering Physics Program; Faculty, Solid-State Science and Technology
Ph.D., Syracuse University, 1957
Mechanical behavior of solids, materials science and engineering; computer applications

Abdallah Yabroudi, Adjunct Professor Civil and Environmental Engineering
B.S. Syracuse University

Heng Yin, Assistant Professor
Ph.D. The College of William and Mary, 2009
System Security, Malware Analysis and Detection Using Binary Analysis Technique; Network Security

Christian Zemlin, Part-time Assistant Professor
Ph.D., Humbolt University, Germany, 2002

Jianshun Zhang, Professor
Ph.D., University of Illinois, Urbana-Champaign, 1991
Building environmental and mechanical systems, materials emissions and indoor air quality, room air and contaminant distributions, multizone air and air contaminant transports in buildings, building energy efficiency, integrated computer simulation tools for building environmental and mechanical system design, system analysis and optimization

Josef Zwislocki, Distinguished Professor Emeritus
Sc.D. Federal Institute of Technology, Zurich
1948

College Of Human Ecology

Diane Lyden Murphy, Dean
119 Euclid Avenue
humanecology.syr.edu/

About The College

College Of Human Ecology

Welcome to the College of Human Ecology! The College of Human Ecology brings together Syracuse University's professional programs in Child and Family Studies, Health and Wellness, Hospitality Management, Marriage and Family Therapy, Nutrition Science and Dietetics, Social Work, and Sport Management in an environment of cross-disciplinary teaching, research, practice, and service. Through classroom learning and hands-on experience, our students learn by example—and by doing—to become professionals who will provide services that enhance the emotional and physical well-being of individuals, families, and communities.

The College of Human Ecology's leadership team includes:

- Irene Kehres, Assistant Dean, Student Services
- Eileen Lantier, Associate Dean, Academic Affairs
- Lutchmie Narine, Associate Dean, Research

The Dean's Office of the College of Human Ecology, located at 119 Euclid Avenue, can be reached at 315-443-2027 for more information about academic programs, services and all other activities related to the College.

Dean's Message

Welcome To The College Of Human Ecology

The Fall 2010 semester marks the start of my sixth year as the dean of the College of Human Ecology where our academic programs address the entire gamut of human behavior—from the physical through the psychological to the social and cultural dimensions of individual, family and community life.

The faculty and staff in our College are excited about the work they do at Syracuse University where they are engaged in our local community and committed to their respective fields of research and scholarship that span the globe. Together, we continue to work strategically and purposefully on every level for one reason—our students.

With new academic programs and degree offerings, we have added faculty and staff to provide our students with the best possible educational experiences both inside and outside of the classroom. Our College Research Center supports interdisciplinary research, scholarship and entrepreneurship. As Dean, I couldn't be more excited about the work we are doing in the College of Human Ecology and the opportunity to offer students the educational experiences of their lives. That our students have selected Syracuse University and the College of Human Ecology is an honor and a privilege we take very seriously.

We are committed to developing our students as leaders and good global citizens who don't simply solve problems but whose life mission is to find a better way to answer the needs of our society.

It is my honor to introduce you to the College of Human Ecology. I hope you will be as impressed as I continue to be with our faculty, staff and students and all they do to make our College one of the most inspiring and innovative members of the SU community.

Sincerely,
Diane Lyden Murphy
Dean

Undergraduate Program Overview

College Of Human Ecology

Diane Lyden Murphy, Dean
119 Euclid Avenue
315-443-2027

The College of Human Ecology is Syracuse University's most service-oriented college; cross-professional collaboration is the cornerstone of teaching, research, and practice. Like professionals in the field, students and faculty in the college work and learn together across disciplinary lines in order to find new, more effective approaches to important social issues. Through the bachelor's degree programs in the departments of child and family studies, hospitality management, health and wellness, nutrition science and dietetics, social work, and sport management, students prepare to become professionals who will enhance the emotional and physical well being of individuals, families, and communities.

Faculty members are current and former practitioners who provide a real-world perspective on the professional field. The small college atmosphere allows for personalized attention from the faculty and staff, who guide students through the educational experience. In consultation with faculty mentors and staff advisors, students choose a major program of study and select coursework that provides necessary professional preparation enhanced by a solid education in the liberal arts.

The integration of theory and practice lies at the heart of the college's mission. Through the college's extensive internship program, students gain valuable hands-on experience that complements their classroom learning and better prepares them for their careers.

General Regulations



For academic rules and regulations that apply to all University students, see the Academic Rules and Regulations section of this catalog. This section also contains special regulations that apply to all students matriculated in the College of Human Services and Health Professions.

COMBINED, DUAL, AND DOUBLE PROGRAMS

Approval for combined, dual, and double programs of study must be obtained from each academic unit involved.

PED GENERAL ELECTIVES

Up to 4 credits in physical education (PED) courses numbered 100-299 may be included among the general elective credits counted toward a degree in the college for singly enrolled students.

FEES

Laboratory fees are required in certain courses, where costly material and extensive specialized equipment and materials are provided.

INTRA-UNIVERSITY TRANSFER

Qualifying GPA varies, depending on the major. Departments may have additional criteria. Applicants are required to discuss tentative transfer plans with the academic chair or director of the proposed program of study. Students who meet department criteria will be admitted on a space-available basis. Transfer requests may be held until the end of the semester.

Special Services And Programs

GERONTOLOGY CERTIFICATE

Any University student may earn a certificate in gerontology from the University Gerontology Center while completing undergraduate studies. Students must take 15 credits of gerontology-related coursework and complete a special project. Social work students seeking the certificate normally complete the senior field practicum and the special project in a gerontology setting.

PART-TIME STUDY

Students who are not able to enroll for full-time study may complete the bachelor's degree on a part-time basis through University College (UC). Part-time students register through UC and are advised both by UC advisors and by faculty in the College of Human Ecology.

EXPERIENCE CREDIT

Social work students may earn elective academic credit for volunteer or paid work experience in social service agencies that occurs while they are enrolled in the undergraduate program. Learning contracts must be set up before the student engages in the experience and usually involve an agreement between the student, a supervising agency staff member, and an appropriate faculty member. Academic credit is not awarded for life or work experience achieved before matriculation in the program.

STUDY ABROAD

The College of Human Ecology, in cooperation with the Syracuse University Abroad (SU Abroad), strongly encourages students to take advantage of the opportunity to study abroad. Study abroad options include semester, summer, and short-stay programs.

SU Abroad offers students the opportunity to participate in a program of study abroad in Santiago, Chile; London, England; Madrid, Spain; Strasbourg, France; Florence, Italy; Hong Kong, China; or Beijing, China. Syracuse University also builds strong overseas affiliations and partnerships, allowing students to be placed directly at other centers and universities.

No prior knowledge of a foreign language is required, with the exception of the Chile program, and students may choose from a variety of courses to fulfill requirements or elective credits for their program of study in the College of Human Ecology. It is essential that students begin planning early for study abroad and work closely with their academic advisors.

For further information, contact the Office of Student Services in the College of Human Ecology, 340 Sims Hall, 315-443-3144, or Syracuse University Abroad, 106 Walnut Place, 315-443-3471.

MINORS

Students in the College of Human Ecology are strongly encouraged to complete a minor, and should seek assistance from their academic advisors in choosing a minor that will enhance their academic programs and add breadth and depth to their college experience. With careful and early planning, most minors can fit into the undergraduate curriculum without a need of extra coursework. Descriptions and requirements for minors in the College of Human Ecology are found on subsequent pages in this catalog. The following is a list of minors offered by the College of Human Ecology:

- Addiction Studies
- Child and Family Policy
- Child and Family Studies
- Gerontology (interdisciplinary minor)
- Health and Wellness
- Hospitality and Food Service Management
- Nutrition
- Nutrition Science
- Public Health
- Social Welfare
- Sport Management

A complete list of minors offered at Syracuse University can be found under the "Programs Offered" heading at the top of this web page. Individual schools and colleges list specific requirements for each minor in this publication. Students may obtain specific information by contacting the department offering the minor.

Academic Departments

The College of Human Ecology brings together a rich history of academic programs whose signatures of social responsibility and justice join new and evolving majors reflective of educating global citizens whose leadership can—and does—change the places and people where they live and work.

Our seven academic programs include:

Department of Child and Family Studies

Department of Health and Wellness

Department of Hospitality Management

Department of Marriage and Family Therapy

Department of Nutrition Science and Dietetics

School of Social Work

Department of Sport Management

Child And Family Studies

Department Of Child And Family Studies

Ambika Krishnakumar, Chair, 315-443-4293.
426 Ostrom Ave

Faculty D. Bruce Carter, Joseph P. Fanelli, Irene Kehres, Ambika Krishnakumar, Eunjoo Jung, Janel Leone, Robert P. Moreno, Kamala Ramadoss, Rachel Razza, Jaipaul L. Roopnarine

UNDERGRADUATE

Irene Kehres, Director of Undergraduate Studies, 315-443-9634

The Department of Child and Family Studies (CFS) is involved in the scientific investigation of children and families with a focus on the physical, emotional and social development of children across the life-span, and the study of family dynamics and processes. Students engage in multidisciplinary learning about the challenges facing families and children across social, cultural, and contextual settings and the strengths and resiliency factors that foster healthy family and child development. Students are involved in learning both in class and field experiences so that they have a more comprehensive understanding of children and families in various cultures and social settings. Upperclassmen are involved in an 180-hour practicum that allows them to apply the knowledge gained in the classroom to a real life setting in the community.

Students in the 124 credit B.S. degree program pursue interests across three tracks of specialization: (a) Early Child Development, (b) Youth and Family Development, (c) Early Childhood Education (4+1). Core courses focus on child, youth and family development, cross-cultural perspectives, interpersonal competence and human sexuality. CFS also offers minors in Child and Family Studies, Child and Family Policy, and Early Childhood.

CFS graduates pursue careers working with children and families in diverse settings including daycare and preschool, early intervention programs, social service, mental health, health and juvenile justice agencies, youth programs, schools and parent and family services. Students also pursue further graduate training in a variety of fields including social work, psychology, medicine, family law, counseling, health care, child and family studies and education.

GRADUATE

Ambika Krishnakumar, Director of Graduate Studies; 315-443-1715

A unique aspect of the Department of Child and Family Studies is the interdisciplinary faculty, a distinguished group whose members have training and advanced degrees in counseling psychology, developmental psychology, educational psychology, sociology, education, and gerontology. The graduate programs in child and family studies integrate theory and practice from these fields with a major emphasis in child development, family studies, or early childhood education. The major goal of the programs is to facilitate understanding of the development of the individual over the life span in diverse family and cultural settings. Supervised participation in early childhood education and counseling settings and research programs give students firsthand experiences in applying and integrating theory. The multidisciplinary approach provides an excellent base for academic and professional service careers.

The department has a strong reputation for its pioneering work in infant education, parent education, child care, parent-child relations in different cultures, and children and families in cross-cultural perspective.

FACILITIES

The Bernice M. Wright Child Development Laboratory School provides opportunities for research, teacher training, and community service. Founded as a model of the parent cooperative movement in early childhood education, the school includes parent involvement at the center of its mission. The school is staffed by both graduate and undergraduate students and offers a strong inclusive component that embraces the developmental and cultural perspectives of its children and families. Limited enrollment is open to both the University and local communities.

The Institute for Family Research and Education (IFRE) was founded in 1970 by Sol Gordon, Ph.D., to focus on different dimensions of individual and family life. Today, the institute has broadened its mission to include both basic research and applied activities pertaining to children and families in cultural and cross-cultural contexts within the United States and the global community. The major functions of IFRE include, but are not limited to: conducting basic and applied research on developmental processes within families and children in diverse cultural/ethnic contexts in the United States and around the world; developing culturally sensitive research tools; disseminating research information on diverse groups of children and families to professions in diverse disciplines and agencies; focusing on the development of family and child life education materials; and offering services to assist in collecting data on families and children.

The Jack Reilly Institute for Early Childhood and Provider Education The Jack Reilly Institute for Early Childhood and Provider Education was established through a generous gift from Syracuse University alumnus John D. Reilly III '69, '70 and his wife, Patricia M. Reilly. Adopting a multidisciplinary approach, the Institute's mission is to conduct basic and applied research and to provide training to early childhood professionals on culturally and

developmentally-appropriate early childhood education practices and issues pertaining to childhood safety.

Health And Wellness

Department Of Health And Wellness

Lutchmie Narine, Chair, 315-443-9630
426 Ostrom Ave.

Faculty: Dessa Bergen-Cico, James Byrne, Luvenia W. Cowart, Brooks Gump, Sandra D. Lane, Eileen Lantier, Mary Ann Middlemiss, Lutchmie Narine, Maureen Thompson

Undergraduate Program

The Department of Health and Wellness offers a 123-credit Bachelor of Science degree (B.S.) in public health. Our graduates are prepared to work in community health education and health promotion in public health agencies, as well as in newly emerging preventive health services in corporate wellness centers, college health services, insurance agencies, or pharmaceutical companies. Many also plan for graduate education in public health, health-related social sciences (medical anthropology, medical sociology, or health psychology), law, and the health professions (medicine, nursing, physician assistance, pharmacy, or dentistry).

Our academically rigorous public health program builds upon a foundation of courses in biology, mathematics, writing, oral communication, nutrition and psychology. The coursework in the major covers: the health of individuals, families, and communities; health literacy; cultural competence; epidemiology; public health administration; health policy and research; substance abuse and addiction; and how to implement and evaluate health programs.

Students frequently move outside the classroom to gain hands-on experience in initiatives to improve the health of individuals, families, and communities. Each student completes a 9-credit internship and capstone project during their senior year.

Graduate Program

The Department of Health and Wellness offers a certificate of Advanced Study in Addiction Studies and participates with Upstate Medical University in a Masters of Public Health Degree.

Hospitality Management

Hospitality Management

Norm Faiola, Chair, 315-443-1710
Lyman Hall

Faculty Pamela Allison, Tim Barr, Norm Faiola, Kimberly Johnson, Mary Ann P. Kiernan, Linchi Kwok

UNDERGRADUATE PROGRAM

The Department of Hospitality Management requires a diversity of skills from many disciplines, including accounting, computer applications, mathematics, chemistry, law, marketing, management, nutrition, and food and beverage management. The curriculum is designed to prepare students for success within changing business conditions and to present both theoretical and practical approaches to the diverse needs of the global hospitality industry.

Nutrition Science And Dietetics

Department Of Nutrition Science And Dietetics

Kay Stearns Bruening, Chair, 315-443-2386
Lyman Hall

Faculty Lynn S. Brann, Kay S. Bruening, Leigh Gantner, Tanya M. Horacek, Sudha Raj, Sarah H. Short, Long Wang

Dietetic Internship Director Debra Z. Connolly

UNDERGRADUATE

The Department of Nutrition Science and Dietetics offers two major programs: nutrition and nutrition science. Students may select one major program or choose a double-major with another program in the College of Human Ecology or in another school or college. Students also have the opportunity to pursue a minor.

Dietetics is the application of the knowledge of human nutrition to support the nutritional needs of the healthy as well as the sick. The study of human nutrition encompasses biology, physiology, chemistry, and the behavioral and social sciences. Students study the changes in nutritional needs throughout the life cycle, examine the factors that influence the selection of foods, and explore ways in which diet can be modified.

Additional courses in chemistry and the biological sciences are prerequisites for many human nutrition courses, which cover basic and advanced nutrition, diet in disease, practice of dietetics, community nutrition, food science, and food service systems.

GRADUATE

Graduate students in the Department of Nutrition Science and Dietetics acquire a balanced background in the theory and application of the science of nutrition. Specialization is desirable and is achieved by appropriate course selection, readings, independent study, field experience, and research projects.

Faculty members have expertise in clinical nutrition, community nutrition, nutrition for growth and development, nutrition education, nutrition science, and hospitality food service management.

The department is affiliated with a number of local hospitals, clinics, and community agencies that provide special learning and research experiences for students according to their background and interests.

School Of Social Work

School Of Social Work

Carrie Jefferson Smith, Director, 315-443-5562
Sims Hall

Faculty Keith A. Alford, Paul Caldwell, Wan-Yi Chen, Kenneth N. Corvo, Ellen deLara, Alejandro Garcia, Juye Ji, Pamela Johnson, Eric Kingson, Karen E. Kirkhart, Tracey Musarra Marchese, Deborah J. Monahan, Nancy R. Mudrick, Diane Lyden Murphy, Jennifer Propp, Carrie Jefferson Smith

DIRECTOR OF FIELD INSTRUCTION Peg Miller

UNDERGRADUATE

Keith Alford, Baccalaureate Program Director, 315-443-5562.

The undergraduate professional social work program offers a bachelor of science degree. The goals of this program, in order of priority, are as follows:

1. To prepare undergraduate social work students for competent entry-level generalist professional practice;
2. To prepare undergraduate social work students for graduate education in social work;
3. To contribute to the academic preparation of students who will enter professional practice or graduate education in related professional fields; and
4. To contribute to the preparation of students for critical and effective participation in the complex community structures of contemporary society.

The social work program is based on the concept of ecological systems, which maintains that the fundamental focus of social work practice is on the transactions of people and their environments, and on the constant state of reciprocity in which each shapes the other. Social work intervention aims to promote the progressive forces and minimize the regressive forces in those transactions. The curriculum incorporates instruction in five professional foundation areas: social welfare policy and services, human behavior in the social environment, research, social work practice, and field practicum. Instruction in these areas builds upon a carefully chosen and strong liberal arts preparation in the humanities, the social and behavioral sciences, and the natural sciences taken within the College of Arts and Sciences.

The program is accredited by the Council on Social Work Education.

GRADUATE

Contact Paul Caldwell, MSW Program Director, 315-443-5562.

The School of Social Work educates practitioners grounded in social work values and evidence-informed practice to foster strengths and to respond to human service needs of local, state, national and global communities. We accomplish this in collaboration with the practice community through teaching, research, scholarship, and service aimed at achieving social and economic justice in a diverse society.

The school offers two graduate programs leading to the master of social work (M.S.W.) degree. The first is a two-year M.S.W. program. The second is an advanced standing program, open only to students who hold a bachelor's degree in social work from a program accredited by the Council on Social Work Education. Both graduate programs prepare students for advanced social work practice and leadership. The graduate program is accredited by the Council on Social Work Education.

The social work program is based on the concept of ecological systems. This concept maintains that the fundamental focus of social work practice is on the transactions of people and their environments and the constant state of reciprocity in which each shapes the other. Social work intervention aims to promote the progressive forces and minimize the regressive forces in those transactions.

More than 200 social welfare and health agencies in Central New York provide graduate field instruction opportunities. Graduate students in the two-year degree program must complete 1000 hours of field experience concurrent with their academic work, thereby integrating classroom and field learning.

ADMISSION

Students in the two-year M.S.W. program begin full-time study only in the fall semester. Advanced standing students begin study in the second summer session. The awarding of the degree requires a minimum cumulative GPA of 3.0 in all courses required for the degree. All degree requirements must have been completed within seven years prior to the date of the degree award.

Matriculated students who voluntarily interrupt graduate study for more than one academic year and wish to be re-admitted will be evaluated by the MSW Program and Field Office directors. Required reevaluation criteria vary according to individual circumstances. The re-admission process is initiated by a letter to the director of the MSW program in the School of Social Work, outlining circumstances of interruption and plans for completion of graduate study.

TRANSFER CREDIT

Graduate credit earned in another accredited graduate school and carrying a grade of B or higher may be transferred toward the M.S.W. degree, so long as it forms an integral part of the degree program and is approved by the School of Social Work. A maximum of 12 credits from other graduate study may be transferred toward the 60-credit M.S.W. degree requirement. Academic credit is not given for life experience or previous work experience. Advanced standing M.S.W. students may not transfer credits from another college or university.

Decisions regarding credit transfer are made independent of admissions decisions. Matriculation as a transfer student in the School of Social Work requires

completion of the formal admissions process.

PART-TIME STUDY

Students unable to enroll full time may complete the program through part-time study. Several options are available. Evening, daytime, and summer courses are offered. Several courses may also be available in one week intensive “minimester” formats.

FINANCIAL AID

A limited number of Syracuse University scholarships and fellowships are available to both first- and second-year graduate students on the basis of need and merit. All financial aid decisions are made independent of and subsequent to decisions on admission.

Sport Management

Sport Management

Michael D. Veley, Chair, 315-443-9881
810 Nottingham Road

Faculty Rick Burton, Gina Pauline, Jeff Pauline, Patrick T. Ryan, Michael D. Veley

UNDERGRADUATE

The academically rigorous Sport Management curriculum combines department-specific courses with professional electives and liberal arts requirements, providing students with the tools to pursue a career in sport management or graduate study. Coursework covers such areas as business, marketing, management, communications, societal influences and impacts, event planning, and law. The 124-credit program allows students to pursue specializations or minors and tailor their studies according to their professional interests. The required 12-credit capstone provides students with valuable industry experience.

Academic Offerings

MINOR IN ADDICTION STUDIES

Contact Maureen Thompson, 315-443-9815

The 18-19 credit Addiction Studies Minor provides students with opportunities to develop broad competencies in preparation for employment in a number of fields addressing substance abuse, gambling and related behavioral addiction problems. Through the Addiction Studies Minor undergraduate students will be exposed to broad perspectives in the addictions field through the core curriculum, and will specialize in one of two areas of emphasis – counseling or prevention.

Upon completion of the addiction studies minor, students will have completed the educational requirements for the New York State Office of Alcoholism and Substance Abuse Services Certified Prevention Specialist (CPS), or Certified Prevention Professional (CPP)¹ and education requirements for the American Academy of Health Care Providers in the Addictive Disorders national certification of a Certified Addiction Specialist (CAS).² Students will have partially met the educational requirements for the NYS Office of Alcoholism and Substance Abuse Services (CASAC) Certificated Alcoholism and Substance Abuse Counselor. The CPS, CPP, CAS, and CASAC certification all require additional supervised post-graduate work experience before students can sit for the certification exam.

Addiction Studies Minor With Prevention Specialization (18-19 Credits—Depending On Course Selection)

The prevention specialization is intended for students who plan to work in addiction prevention programs and services. Two New York State certifications exist: Certified Prevention Specialist (CPS) and Certified Prevention Professional (CPP)

Required courses

HT W 318 Alcohol, Other Drugs, Gambling and Sex: Dynamics of Addiction 3

HT W 402 Implementing and Evaluating Health Programs 3

HT W 304 Community Health Education 3

HT W 408 Addictions in Cultural Context 3

Electives (choose an additional

2 courses from the following)

HT W 405 Cognitive Behavioral Approaches to Stress Reduction 3

HT W 406 Clinical Evaluation and Assessment of Addictions 3

HT W 407 Wellness Counseling and Coaching: Overcoming Resistance to Change 4

HT W 409 The Impact of Addictions on Families and Relationships 3

Addictions Studies Minor With Counseling Specialization (19 Credits)

The counseling specialization is intended for students who plan to provide addiction treatment services. Upon completion of the education requirements at Syracuse University, students are eligible for a CASAC Trainee certificate issued by the New York State Office of Alcoholism and Substance Abuse Services. Students will have also met the educational requirements of the American Academy of Health Care Providers in the Addictive Disorders national certification for a Certified Addiction Specialist (CAS).

Required courses

HT W 318 Alcohol, Other Drugs, Gambling and Sex: Dynamics of Addiction 3

HT W 406 Clinical Evaluation and Assessment of Addictions 3

HT W 407 Wellness Counseling and Coaching: Overcoming Resistance to Change 4

HT W 408 Addictions and Treatment in Cultural Context 3

Electives (choose an additional 2 courses from the following)

HT W 405 Cognitive Behavioral Approaches to Stress Reduction 3

1. Detailed CPS and CPP certification requirements can be viewed at <http://www.oasas.state.ny.us/sqa/credentialing/CPPCPSCover.cfm>
 2. Detailed CAS certification requirements can be viewed at <http://www.oasas.state.ny.us/sqa/credentialing/CASACCover.cfm>
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Child And Family Policy Minor

CHILD AND FAMILY POLICY MINOR

A minor in Child and Family Policy Studies is an interdisciplinary program that gives students an opportunity to study both public policy issues and child development and family relationship issues. The needs and interests of children and families are interwoven within current and past public policies and government programming. This minor requires a completion of 18 credits. To be admitted to the program, students must submit a Declaration of Minor form to their academic advisor, the minor coordinator and their home college dean's office.

Required core courses (12 credits)

PAF 101 An Introduction to the Analysis of Public Policy 3
CFS 201 Family Development or
CFS 202 The Development of the Young Child in the Family 3
MAX 201 Quantitative Methods in the Social Sciences 3
CFS 433 Child Practicum or
CFS 493 Family Practicum or
PAF 410 Practicum in Public Policy 3

Plus one elective course to be chosen from the following (3 credits)

CFS 335 Issues and Perspectives in Early Childhood Education
(Prereq: CFS 202) 3
CFS 395 Seminar: Family and Interventions 3
CFS 479 Power, Conflict, Violence, and the Family 3

Plus one elective course to be chosen from the following (3 credits)

PAF 410 Practicum in Public Policy
Topic: Non-Profit & Gov Agency Pract.
Topic: Education Policy
Topic: Grant Writing
Topic: Intro to Web Design
Topic: Data Management of Public Pol
Topic: Housing
PAF 431 Criminal Justice System
SWK 314 Social Welfare Policy and Services I

Child And Family Studies

The 124 credit B.S. degree program in child and family studies provides students with a broad foundation in a range of issues in child and family studies across the life span. In addition to core courses in liberal arts, students are expected to complete 15 credits in Program Requirements and 18 credits in a specialty track (decided on in the second semester of the sophomore year). Each track prepares students to work in specific settings:

- *Early Child Development* students focus on day care and pre-school settings in the early intervention field.
- *Youth and Family Development* students learn to work in a variety of settings that focus on youth and family needs including social services, health, mental health and juvenile justice programs, counseling centers, parenting programs, recreation and athletic programs, afterschool programs and schools.
- *Early Childhood Education (4+1)* prepares students for careers as early childhood educators. Students have the opportunity to pursue a master's degree in early childhood special education (ECSE) on year after completing an undergraduate degree in CFS. Students enrolled in this degree program will receive a 30 percent reduction for their one year of graduate tuition.

Students seeking to transfer into CFS should contact the Director of Undergraduate Studies.

College Requirements (1 credit)
HSH 101 First-Year Gateway 1

Communication Skills

WRT Studio 1: Practices of Academic Writing 3
WRT 205 Studio 2: Critical Research and Writing 3
CFS 255 Interpersonal Competence or
CFS 331 Play, Childhood Development and Early Education 3

Quantitative Skills

Statistics and/or calculus 6

Natural Science and Mathematics

NSD 225 Nutrition in Health 3
Additional natural science and mathematics 12-15

Social Sciences

PSY 205 Foundations of Human Behavior 3
SOC 248 Ethnic Inequalities and Intergroup Relations or
SWK 328 Human Diversity in Social Contexts 3
Additional Social Sciences 6

Humanities

PHI 191 Ethics and Value Theory and
Additional humanities 9

Program Requirements (15 credits)

CFS 201 Family Development 3
CFS 202 Development of the Young Child in the Family 3
CFS 204 Applied Research Methods in CFS 3
CFS 363 Introduction to Gerontology 3
CFS 367 Child and Family in Cross-Cultural Perspectives 3
Electives 33-36

In the second semester of the sophomore year, students must choose one of the following specialized tracks :

Early Child Development (18 credits)

Required Courses

CFS 331 Play, Childhood Development and Early Education 3
CFS 335 Issues and Perspectives in Early Childhood Education 3
CFS 432 Foundations and Principles of Early Childhood Education 3
CFS 433 Child Practicum 3

*Plus 2 other CFS courses at the 300 level or above
(500 level courses may be taken as electives)*

Youth and Family Development

Required Courses

CFS 493 Youth & Family Practicum 1 3
CFS 494 Youth & Family Practicum 2 3

Choose 2 courses from the list below:

CFS 388 Human Sexuality 3
CFS 448 The Contemporary American Family and Community 3
CFS 479 Power, Conflict, Violence in the Family 3

*Plus 2 other CFS courses at the 300 level or above
(500 level courses may be taken as electives)*

EARLY CHILDHOOD EDUCATION MASTER'S DEGREE

Students who wish to be certified as early childhood educators have the opportunity to pursue a master's degree in early childhood special education (ECSE) in a reduced period of time (one academic year and two summers). After completing the child and family studies degree, qualified students may apply for graduate study in the School of Education at Syracuse University. Students enrolled in this degree program will receive a 30 percent reduction in their graduate tuition. Students desiring to pursue this option should complete the child development specialization, including CFS 367, and complete these specific liberal arts requirements beyond those listed for the major:

- a one-year sequence (two courses) of college-level mathematics (may also fulfill the math/foreign language requirement in the liberal arts core);
- two sciences with laboratories (physical sciences recommended);
- at least one class in history (which may count toward fulfilling liberal arts core requirements in the social sciences or humanities, depending on the course); and
- an art history course (e.g. an FIA course that would also meet a humanities requirement).

The Early Childhood Special Education (ECSE) graduate program requires that undergraduate writing, mathematics, and laboratory sciences courses have grades averaging no less than a B- with no grade below a C. Students are required to demonstrate competency in a foreign language either by successfully completing the first year of college study in a language (e.g. SPA 101 at Syracuse University) or by providing official documentation of successful completion of Level III of foreign language in high school. Interested undergraduate students should contact the School of Education about taking EDU 303 to further reduce the number of graduate credits required for the degree.

Interested students should work closely with their academic advisors to meet these requirements.

CHILD AND FAMILY STUDIES MINOR

Students pursuing programs in other areas of study may choose a minor in child and family studies. The minor program requires the completion of 18 credits. To be admitted to the program students must submit a petition to the CFS Director of Undergraduate Studies.

Required core courses

CFS 201 Family Development 3
CFS 202 The Development of the Young Child in the Family 3
CFS 363 Introduction to Gerontology 3
CFS 367 Child and Family in Cross-Cultural Perspectives 3

Plus two other CFS courses at the 300- or 400-level or above (other than the practicum courses)

EARLY CHILDHOOD MINOR

EARLY CHILDHOOD MINOR

Students pursuing programs in other areas of study may choose an early childhood minor program in child and family studies. The minor program requires the completion of 19 credits. To be admitted to the program, students must submit a petition to the chair of the Department of Child and Family Studies and the recorder in the College of Human Ecology.

Required core courses

CFS 201 Family Development 3
CFS 202 Development of the Young Child in the Family 3
CFS 432 Foundations and Principles of ECE 4

Plus three elective courses to be chosen from the following:

CFS 331 Social Relationships and Peer Play 3
CFS 358 Prosocial and Moral Development 3
CFS 367 Child and Family in Cross-Cultural Perspectives 3
CFS 377 Children in Black Families 3

HEALTH AND WELLNESS MINOR

The 18 credit Minor in Health and Wellness is available to all University students with a Cum GPA of 2.5 or above and addresses personal behaviors, environmental factors and social conditions that affect the quality of personal and public health. It is intended to increase the capacity of the individual to adopt health-benefiting behaviors and lifestyles.

The minor requires completion of 18 credits, including 12 credits above the 300 level. To be admitted into the minor, a student must submit a Declaration of Minor form to his or her faculty advisor, the Health and Wellness Minor coordinator, and the Dean's office in his or her home college.

For more information, or to obtain a form to declare the Minor in Health and Wellness, contact the minor coordinator, Dr. Maureen Thompson (Department of Health and Wellness, 426 Ostrom Avenue, Rm.316, mlthomps@syr.edu).

Please note: students who pursue a minor in health and wellness may not pursue a minor in public health or a minor in addiction studies.

Required Core Courses

- HTW 121 Personal and Social Wellness
- HTW 221 Health Promotion Across the Lifespan

Plus Four additional courses chosen from HTW courses number 300 or above.

HOSPITALITY AND FOOD SERVICE MANAGEMENT MINOR

HOSPITALITY AND FOOD SERVICE MANAGEMENT MINOR

Students pursuing programs in other areas of study may choose a minor in hospitality management. The minor program requires the completion of 18 credits. To be admitted to the program, a 2.8 minimum GPA and interview are required. Students must submit a petition to the chair of the Department of Hospitality Management and to the recorder in the College of Human Ecology.

Required

HPM 114 Food Safety and Quality Assurance 2 AND
HPM 115 Food Science I 3 AND
HPM 216 Restaurant and Food Service Operations 4 OR
NSD 225 Nutrition in Health 3

12 credits needed:

HPM 300 Selected Topics: **Advanced Lodging Management** 3
HPM 309 Sports Arena Management 3
HPM 312* Cost Control in Food Services (Prereq: accounting) 3
HPM 313 Event, Conference, and Convention Planning 3
HPM 314 Hospitality Human Resources Management 3
HPM 316 Hospitality Products and Procurement 3
HPM 321 Hotel and Resort Operations 3
HPM 325 Nutrition in Hospitality Industry 3
HPM 329 Hospitality Marketing 3
HPM 385 Budget and Finance for Hospitality Management 3
HPM 412** Wine Appreciation 2
HPM 413 Beverage Operations Management 3
HPM 414 Hospitality Facilities Planning and Design 3
HPM 419 Hospitality Law 3
HPM 422** Wine and Beer Appreciation 2
Other HPM courses by petition

Possible but infrequently offered:

HPM 318 Food Retailing 3
HPM 416 Cultural Cuisine 1-3

*Highly recommended

**Students may take either HPM 412 or HPM 422, but not both

Hospitality And Food Service Management

The B.S. degree program in hospitality and food service management requires the completion of at least 124 credits and incorporates studies in arts and sciences, management, and hospitality management. Management coursework includes accounting, organization and management, human resources management and labor relations, and marketing. Food and beverage management courses include quantity food preparation and service, cost control, purchasing, sanitation, and other professional courses.

The hospitality and food service management program prepares students to assume management positions in hotels, resorts, independent and multi-unit restaurant operations, and other areas within the global hospitality industry.

Work Experience Requirement

Students are required to complete 800 hours of approved industry-related work experience and 100 hours of community service before graduation. Students with previous work experience may have up to 400 hours credited toward the requirement.

Lower-Division Requirements

HSH 101 First-Year Gateway 1
HPM 101 Introduction to the Hospitality Industry 3
WRT 105,205 Writing Studio 1 and 2 6
PSY 205 Foundations of Human Behavior 3
CHE 103 Chemistry in the Modern World 3
NSD 225 Nutrition and Health 3

Natural science 3-4

MAT 121 Probability and Statistics for the Liberal Arts I and 3
MAT 122 Probability and Statistics for the Liberal Arts II or 3
MAT 183 Elements of Modern Mathematics 3
ACC 151 Introduction to Financial Accounting 4 or
ACC 201 Essentials of Accounting 3
IST 195 Information Technologies 3
ADV 206 Advertising Practice in a Diverse Society 3
HPM 114 Food Safety and Quality Assurance 2
HPM 115 Food Science I 3
HPM 214 Menu Development 3
HPM 216 Restaurant and Food Service Operations 4
ECN 203 Economic Ideas and Issues 3

Social Science Elective 3

Humanities 6

Upper-Division Requirements

HPM 300 Selected Topic: **Leadership & Career Management** 1
HPM 312 Cost Control in Food Services 3
HPM 314 Hospitality Human Resources Management 3
HPM 316 Hospitality Products and Procurement 3
HPM 321 Hotel and Resort Operations 3
HPM 325 Nutrition in Hospitality Industry 3
HPM 329 Hospitality Marketing 3
HPM 376 Hospitality Industry Work Experience 3
HPM 385 Budgeting and Finance for Hospitality Management 3
HPM 413 Beverage Operations Management 3
HPM 414 Hospitality Facilities Planning and Design 3
HPM 418 Hospitality Management Capstone 4
HPM 419 Hospitality Law 3
HPM 421 Ethics and Issues in the Hospitality Field 3

Program electives 9

Liberal Arts Electives 15-26

Total 124

Recommended Program Electives

HPM 217 World Cuisines 3
HPM 219 Catering 3
HPM 307 Casino Operations 3
HPM 309 Sports Arena Management 3
HPM 313 Event, Conference, and Convention Planning 3
HPM 318 Food Retailing 3
HPM 416 Cultural Cuisine 1-3
HPM 417 Advanced Restaurant Operations 3
MAS 261 Statistical Analysis 3

Inclusive Early Childhood Special Education

Contact: Corinne Smith, Chair, 315-443-1468 or 315-443-2685 or crsmith@syr.edu

This B.S. degree program is a dual program between the School of Education and the College of Human Ecology—with the School of Education as the home school. This program provides you with the professional background you need—a solid core of liberal arts distribution coursework and a concentration in child and family studies from the College of Human Ecology. A cornerstone of IECSE is the extensive and varied series of field experiences it offers. Our Syracuse program is unique, coordinating your coursework with fieldwork in the schools as early as your first semester of study. Many schools and childcare centers in the Syracuse area are at the forefront of inclusive education. Through our close partnerships with local schools and early childhood centers that welcome all students, and with our wide network of urban, suburban, and rural school affiliations, we provide a broad range of opportunities for getting the most out of field experiences.

PROGRAM REQUIREMENTS

Program requirements include liberal arts skills, a concentration in child and family studies, and professional coursework. The program typically requires a minimum of 134 credits. The length varies and can be more than 137 credits, depending on the student's skill background, language completion and other choices made by the student. In most cases, students enroll for more than 15 credits in a semester and/or take summer courses (at SU or other colleges) to complete the degree within four years. Therefore, prospective students not already enrolled in the School of Education are encouraged to consult with the School of Education as early as possible.

Note: Because of the professional education sequence, the study abroad semester for students completing in four years must be spring of the junior year.

Liberal Arts Requirements:

- WRT 105 or WRT 109, and (3credits)
- WRT 205 or WRT 209 (3 credits)
- Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study
- Algebra competency or MAT 112 (0-3 credits)
- MAT 117 and MAT 118 (6 credits)
- SCI 104 and SCI 105 (6 credits)
- U.S. History (3 credits)
- U.S. History II or Global History (3 credits)
- Geography (3 credits)
- Citizenship, Economics, and Government (3 credits)
- Global Perspectives (3 credits)
- Literature (6 credits)
- Additional liberal arts breadth (3 credits)

Child And Family Studies And Social Science Concentration:

- CFS 201 Family Development
- CFS 202 The Development of the Young Child in the Family (3 credits)
- CFS 331 Play, Development and Early Education (3 credits)
- CFS 345 The Developing Infant (3 credits)
- CFS 395 Seminar: Family and Child Intervention (3 credits)
- CFS 367 Child and Family in Cross-Cultural Perspectives (3 credits)
- CFS 447, CFS 479, or CFS 487 (3 credits)
- Social sciences: Three social science courses used to meet distribution requirements. At least one must be 300 level (9 credits)

Professional Education Requirements:

- EDU 203 Study of Elementary and Special Education Teaching (3 credits)
- EDU 201 Practicum in Inclusive Pre-K (1 credit)
- SPE 311 Perspectives on Disabilities (3 credits)
- IDE 200 Integrating Technology into Instruction I 1 (1 credit)
- CFS 432 Foundations and Principles of Early Childhood Education (3 credits)
- CFS 335 Issues and Perspectives in Early Childhood Education (3 credits)
- CSD 303 Communication in the Classroom 3 (3 credits)

Arts in Education (complete 2 credits)

- EDU 431 Art in the Classroom 1 (1 credit)
- EDU 432 Music in the Classroom 1 (1 credit)
- EDU 433 Speech and Drama in the Classroom 1 (1 credit)

Students' progress is reviewed several times through the program against specific proficiencies and other assessment criteria. Students must successfully meet all criteria of a Pre-Block I review process outlined on a checklist available from Academic and Student Services, 270 Huntington Hall. Because these criteria include grades in courses typically completed in the first years, students should become familiar with this checklist early in their study. Reviews also take place to determine eligibility to enter subsequent blocks.

Block I

EED 314 Teaching Strategies for Inclusive Education (3 credits)

EED 325 Primary Grade Literacy Methods and Curriculum (3 credits)
EED 361 Block I Field Experience and Seminar (3 credits)

Block II

EED 323 Primary Grade Math Methods and Curriculum (3 credits)
EED 328 Block II Field Experience (3 credits)
EED 336 Elementary Social Studies Methods and Curriculum (3 credits)
EED 362 Block II Field Seminar (1 credit)
SPE 324 Differentiation for Inclusive Education (3 credits)
EDU 434 Creative Movement for the Classroom (1 credit)
IDE 300 Integrating Technology into Instruction II (1 credit)

Early Childhood Block

Upper-division CFS Early Childhood Methods (6 credits)
SPE 520 Methods and Curriculum in Early Childhood Special Education (3 credits)
EED field experience (3 credits)
IDE 400 Integrating Technology into Instruction III (1 credit)

Student Teaching

EDU 400 Seminar/Student Teaching/Inclusive (3 credits)
EDU 508 Student Teaching/Inclusive Early Childhood Special Education (12 credits)

Required Child Health And Life Safety Seminar Covering The Following Topics:

Identifying/reporting child abuse
Violence prevention
Child abduction prevention
Highway/general safety
Alcohol/drug/tobacco prevention
Fire and arson prevention

INTERDISCIPLINARY MINOR IN GERONTOLOGY

The interdisciplinary minor in gerontology provides an opportunity for students to focus academic work on the older population. It requires the completion of 18 credits, 12 of them above the 300 level. To be admitted to the program, students submit a Declaration of Minor form to their faculty advisor, the gerontology minor coordinator, and their home college dean's office.

Students also may apply for a certificate of achievement in gerontology from the University Gerontology Center, 426 Eggers Hall, 315-443-2703.

Required core courses (3 credits each)

CFS 363 Introduction to Gerontology
SOC 364 Aging and Society

Two from the following: (3 credits each)

NSD 225 Nutrition in Health
PSY 337 Psychology of Adult Life: Maturity and Old Age

Choice of two additional courses from the following: (3 credits each)

CFS 487 Critical Incidents in Family Development
NSD 325 Nutrition in Hospitality Industry
NSD 342 Nutrition in the Life Span
AAS/SOC 353 Sociology of the African American Experience
ANT/WGS 363 Anthropology of Family Life
ECN 355 Economics of Health and Medical Care
ECN/WGS 358 Economics of U.S. Poverty and Discrimination
REL 551 Ethics and the Health Professions

Note: Students who wish to substitute other courses with comparable gerontological content as alternatives for the required courses listed above may do so by submitting a petition to the coordinator of the gerontology minor, Carrie Smith. Also, students may petition to substitute experience credit in the student's program of study (e.g. CFS 470) may also be used for 1 to 3 credits. To ensure adequate gerontological content, the experience credit petition must be reviewed by the coordinator of the gerontology minor.

Nutrition

Contact Tanya Horacek, 315-443-9323.

The B.S. degree program in nutrition includes coursework in chemistry, biology, meal management, nutrition in health, physiology, and biochemistry. Students also study nutrition in the life span, diet in disease, community nutrition, nutrition education and counseling, and advanced nutrition. Opportunities for fieldwork provide students with hands-on experience.

The nutrition program is accredited by the Commission on Accreditation for Dietetics Education (120 S. Riverside Plaza, Chicago IL 60606; 312-899-0040, ext. 5400) to become a registered dietitian, but must be followed by an internship before eligibility for the registration examination is granted. To obtain an internship, a student must usually have a minimum GPA of 3.0 and related work experience.

Lower-Division Requirements

HSH 101 First-Year Gateway 1
WRT 105,205 Writing Studio 1 and 2 6
CHE 106 General Chemistry Lecture 3
CHE 116 General Chemistry Lecture 3
MAT 221 Elementary Probability and Statistics I, or
MAT 121 Probability and Statistics 3
BIO 121 General Biology I 4
BIO 123 General Biology II 4
BIO 216 Anatomy and Physiology I 4
BIO 217 Anatomy and Physiology II 4
PSY 205 Foundations of Human Behavior 3
NSD 114 Food Safety and Quality Assurance 2
NSD 115 Food Science I 3
NSD 216 Restaurant and Food Service Operations 4
NSD 225 Nutrition in Health 3

Social sciences 6

Humanities electives 6 including

WRT 301,303,307 or writing intensive 3 OR
foreign language series 8

3 credits from social sciences or humanities must be a critical reflections course per the Arts and Sciences Core Curriculum choices.

Upper-Division Requirements

CRS 225 Public Advocacy or 3
CRS 325 Presentational Speaking 3
NSD 312 Cost Control in Food Services 3
NSD 314 Hospitality Human Resources Management 1
NSD 326 Practice of Dietetics 3
NSD 342 Nutrition in the Life Span 3
NSD 275 Food Service System 3
NSD 455 Community Nutrition 3
NSD 456 Nutritional Biochemistry 4
NSD 457 Research and Evaluation in Nutrition 3
NSD 466 Advanced Nutrition 3
NSD 476 Nutrition Seminar 1
NSD 477 Senior Seminar II 1
NSD 481 Medical Nutrition Therapy I 3
NSD 482 Medical Nutrition Therapy I Lab 1
NSD 483 Medical Nutrition Therapy II 3
NSD 484 Medical Nutrition Therapy II 1
NSD 511 Nutrition Education 3
NSD 512 Nutrition Counseling 3
NSD 555 Food, Culture and Environment 3

Electives to complete 124 credits

NUTRITION MINOR

Contact Tanya M. Horacek, 315-443-2386.

Students pursuing programs in other areas of study may choose a minor in nutrition or nutrition science. The minor program requires the completion of 18 credits. To be admitted to the program, students must submit a petition to the chair of the Department of Nutrition Science and Dietetics and to the recorder in the College of Human Ecology.

Required

NSD 115 Food Science I 3
NSD 225 Nutrition in Health 3

Choice of 12 credits:

NSD 325 Nutrition in Hospitality Industry 3
NSD 326 Practice of Dietetics 3
NSD 342 Nutrition in the Life Span 3
NSD 343 Dietary Supplements 3
NSD 425 Nutrition for Fitness and Sports 3
NSD 447 Weight Management, Obesity, and Disordered Eating 3
NSD 455 Community Nutrition 3
NSD 511 Nutrition Education 3
NSD 555 Food, Culture and Environment 3

If prerequisites are taken:

NSD 456 Nutritional Biochemistry 4
NSD 466 Advanced Nutrition 3

Nutrition Science

Contact Sarah H. Short, 315-443-2386.

The B.S. degree program in nutrition science emphasizes the biological and physical sciences. In addition to food science, nutrition in health, diet in disease, and advanced nutrition, studies include work in general and organic chemistry, biology, physiology, and biochemistry.

Completion of 40 credits in the biological and physical sciences or mathematics, including statistics, is required for graduation. A total of 30 credits in human nutrition must also be completed. Students must consult with an advisor for specific distribution of credits.

Lower-Division Requirements

HSH 101 First-Year Gateway 1
WRT 105,205 Writing Studio 1 and 2 6
CHE 106,116 General Chemistry Lecture 6
CHE 107,117 General Chemistry Laboratory 2
CHE 275,325 Organic Chemistry Lectures 6
CHE 276,326 Organic Chemistry Laboratory 4
BIO 121,123,124 General Biology 8
PSY 205 Foundations of Human Behavior 3
NSD 225 Nutrition in Health 3

Social or behavioral sciences 6
BIO 216,217 Anatomy and Physiology I, II 8

Upper-Division Requirements

NSD 466 Advanced Nutrition 3 AND
either
NSD 456 Nutritional Biochemistry 4 OR
BIO 575,576 General Biochemistry I and II 5
NSD 457 Research and Evaluation in Nutrition 3
NSD 481 Medical Nutrition Therapy I 3
NSD 483 Medical Nutrition Therapy II 3
Humanities 6 including
WRT 301,303,307 or Writing-Intensive 3 OR
Foreign language series 8
Nutrition electives 21

Electives to complete 124 credits

Three credits from social sciences or humanities must be a critical reflections course per the Arts and Sciences Core Curriculum choices.

In addition to above requirements, pre-med students are required to complete one year of physics plus lab and one year of calculus.

NUTRITION SCIENCE MINOR

Contact Kay Stearns Bruening, 315-443-2386.

Students pursuing programs in other areas of study may choose a minor in nutrition or nutrition science. The minor program requires the completion of 18 credits. To be admitted to the program, students must submit a petition to the chair of the Department of Nutrition Science and Dietetics and to the recorder in the College of Human Ecology.

Required

NSD 225 Nutrition in Health 3
NSD 456 Nutritional Biochemistry or equivalent 4
(Chemistry prerequisite)
NSD 466 Advanced Nutrition 3

Choice of 9 credits:

NSD 342 Nutrition in the Life Span 3
NSD 343 Dietary Supplements 3
NSD 425 Nutrition for Fitness and Sports 3
NSD 447 Weight Management, Obesity, and Disordered Eating 3
NSD 455 Community Nutrition 3
NSD 481 Medical Nutrition Therapy I 3
(Physiology and Nutritional Biochemistry prerequisites)
NSD 483 Medical Nutrition Therapy II 3
NSD 555 Food, Culture, and Environment 3

Public Health B.S.

Communication Skills (9 credits) WRT 105 Writing Studio 1 3
WRT 205 Writing Studio 2 3

One course focused on either oral or interpersonal communication competency. Students choose from:

CFS 255: Interpersonal Competency
CRS 225: Public Advocacy
CRS 325: Presentational Speaking
CRS 331: Interpersonal Communication
CRS 333: Small Group Communication
CRS 335: Leadership/Stewardship
SWK 201: Social Work Practice Skills I

Quantitative Skills (6 credits)

Students must complete 2 semesters of quantitative skills coursework. Students complete a FIRST Course and a different SECOND Course as outlined below:

FIRST COURSE:

MAT 121
MAT 194
MAT 221
MAT 285
STT 101

SECOND COURSE (subject to pre-reqs):

MAT 122
MAT 222
MAT 285
MAT 286
PSY 252
MAX 201

Natural Science (11 credits)

NSD 225 Nutrition in Health 3
BIO 121 General Biology I 4
BIO 123 General Biology II 3
BIO 124 General Biology II Lab 1

Social Science (9 credits)

PSY 205 Foundations of Human Behavior 3

Humanities 9

Human Ecology Requirement (1 credit)

HSH 101 First-Year Gateway 1

Program Requirements (45 credits)

HTW 121 Personal and Social Health 3
HTW 221 Health Promotion/Lifespan 3
HTW 302 Influencing Healthy Behaviors 3
HTW 303 Community and Environmental Health 3
HTW 304 Community Health Education 3
HTW 306 Public Health Administrative Systems 3
HTW 307 Culturally Competent Health Care 3
HTW 309 Health Disparities and Vulnerable Populations 3
HTW 311 Health Literacy 3
HTW 401 Epidemiology 3
HTW 402 Implementing and Evaluating Health Programs 3
HTW 403 Community-Based Health Policy and Research 3
HTW 422 Senior Capstone Internship 9

General Electives (33 credits)

Total Credits 123

Public Health Minor

The Minor in Public Health is available to all University students with a Cum GPA of 2.5 or above and provides students with opportunities to develop broad competencies in areas of study commonly identified with public health. The minor is designed in part for students wishing to gain knowledge and skills for employment in a number of fields that intersect with public health or in preparation for graduate study in public health. The minor requires completion of 18 credits, including 12 credits above the 300 level. To be admitted into the minor, a student must submit a Declaration of Minor form to his or her faculty advisor, the Public Health Minor coordinator, and the Dean's office in his or her home college.

For more information, or to obtain a form to declare the Minor in Public Health, contact the minor coordinator, Dr. Maureen Thompson (Department of Health and Wellness, 426 Ostrom Avenue, Rm.316, mlthomps@syrr.edu).

Please note: students who pursue a minor in public health may not pursue a minor in health and wellness or a minor in addiction studies.

Course Requirements for the Minor in Public Health

Required Courses:

HTW 221: Health Promotion across the Lifespan
HTW 303: Community and Environmental Health
HTW 306: Public Health Administrative Systems
HTW 309: Health Disparities and Vulnerable Populations

Students choose 2 additional courses from the following:

HTW 305: Community Mental Health Promotion

HTW 307: Culturally Competent Health Care
HTW 311: Health Literacy
HTW 401: Epidemiology
HTW 415: Public Health Ethics
HTW 403: Community Based Health Policy & Research
NSD 342: Nutrition in the Life Span
NSD 455: Community Nutrition

SOCIAL WELFARE MINOR

SOCIAL WELFARE MINOR

Students pursuing minors in other areas of study may choose a social welfare minor. The minor program requires the completion of 18 credits. To declare a minor, students must have a minimum cumulative GPA of 2.5 and submit a Declaration of Minor form to the social welfare minor program or the director of the baccalaureate social work program, their faculty advisors, and the dean's office of their home colleges. A limit of 3 transfer credits may be applied with permission.

Required core courses (3 or 6 credits; 3 credits each)

SWK 115 Introduction to Social Welfare or
SWK 201 Social Work Practice and Skills Laboratory I
(If both SWK 115 and 201 are taken, SWK 115 must precede SWK 201.)

Elective courses (12-15 credits; 3 credits each)

SWK 314 Social Welfare Policy and Services I
SWK 315 Social Welfare Policy and Services II
SWK 326 Persons in Social Context
SWK 328 Human Diversity in Social Contexts
SWK 357 Processes of Aging
SWK 361 Foundations of Social Work Research
SWK 400 Selected Topics

Social Work

Contact Keith Alford, 315-443-9723.

The bachelor of science degree in social work requires the completion of 120 credits. Social work major requirements total 42 credits. Liberal arts and supporting requirements total 55 to 58 credits including 12 to 15 credits in liberal skills, 12 credits in humanities, 24 credits in social sciences, 7 credits in natural sciences, and 20 to 23 credits of electives.

All bachelor's students in social work must complete at least 45 hours of volunteer or paid experience in a human service agency before the end of the sophomore year.

MAJOR REQUIREMENTS

Social Work (42 credits)
HSH 101 First-Year Gateway 1
SWK 201,202 Social Work Practice Skills Laboratory I and II 6
SWK 301 Foundations of Social Work Practice 3
SWK 314,315 Social Welfare Policy and Services I and II 6
SWK 326 Persons in Social Contexts 3
SWK 328 Human Diversity in Social Contexts 3
SWK 361 Foundations of Social Work Research 3
SWK 401,402 Strategies of Social Work Intervention I and II 6
SWK 435,436 Field Practicum I; Field Seminar I 6
SWK 445,446 Field Practicum II; Field Seminar II 6

Liberal Skills Requirements (12-15 credits)

Expository writing 6-9
Mathematics 6

Note: The statistics requirement for social work students may be satisfied by taking MAT 121/122 or MAT 221/222 as a liberal skills requirement.

Humanities Divisional Perspectives (12 credits)

Social work students must complete 12 credits in the humanities divisional perspective defined in the liberal arts core of the College of Arts and Sciences. More detail is offered in the publication, "Liberal Arts Core."

Natural Sciences Divisional Perspective (7 credits)

BIO 121 General Biology 4
ANT 131 Introduction to Human Evolution, or
BIO 123 General Biology, or
PSY 223 Introduction to Biopsychology, or
PSY 315 Drugs and Human Behavior, or
PSY 395 Abnormal Psychology or
NSD 225 Nutrition in Health 3

Social Sciences Divisional Perspective (24 credits)

AAS/ANT 112 Introduction to African American Studies, or
ANT 121 Peoples and Cultures of the World 3

ECN 203 Economic Ideas and Issues, or
ECN 258 Poverty and Discrimination in America 3
PSC 121 American National Government and Politics, or
PSC 122 American State and Local Government and Politics 3
PSY 205 Foundations of Human Behavior 3
PSY 274 Social Psychology 3
PSY 335 Psychology of Childhood, or
PSY 336 Psychology of the Adolescent, or
CFS 202 The Development of the Young Child in the Family 3
PSY 337 Psychology of Adult Life: Maturity and Old Age, or
SWK 357 Processes of Aging 3
SOC 101 Introduction to Sociology 3

Electives (variable credits)

Specific advising guidelines for selecting and sequencing required and elective courses are available from the School of Social Work.

B.S. DEGREE IN SPORT MANAGEMENT

Communication Skills (9 credits)

WRT 105 Writing Studio 1 (3 credits)

WRT 205 Writing Studio 2 (3 credits)

CRS 225 Public Advocacy (3 credits)

OR

CRS 325 Presentational Speaking (3 credits)

Quantitative Skills (6 credits)

Natural science and mathematics division (10-11 credits)

NSD 225 Nutrition in Health (3 credits)

Lab Science (4 credits)

Natural Science elective (3 or 4 credits)

Humanities division (9 credits)

Social science division (12 credits)

PSY 205 Foundations of Human Behavior (3 credits)

ECN 203 Economic Ideas and Issues (3 credits)

Social Science elective (6 credits)

Global Diversity (6 credits)

General skills (4 credits)

HSH 101 First-Year Gateway 1

ACC 201 Introduction to Accounting for non-Management Students 3

Program Requirements (43 credits)

SPM 200 Selected Topics: Careers in Sport (1 credit)

SPM 205 Principles and Contemporary Issues in Sport Management (3 credits)

SPM 215 Principles of Sales in Sport (3 credits)

SPM 225 Managing the Sport Organization (3 credits)

SPM 295 Research Methodology (3 credits)

SPM 315 Sport Finance (3 credits)

SPM 325 Sport Communications (3 credits)

SPM 345 Technology in Sport Management (3 credits)

SPM 395 Psycho-Social Issues in Sport (3 credits)

SPM 415 Sport Law (3 credits)

SPM 444 Sport Marketing Management (3 credits)

SPM 455 Senior Sport Management Capstone (12 credits)

*Electives: **

Total Credits: 124

Students are strongly encouraged to complete a minor or an area of specialization comprising of at least 18 credits in a single department other than sport management. At least 12 of these credits must be in courses at or above the 300 level. This minor or area of specialization may include courses taken to fulfill requirements other than the major.

*Students must take enough credits in electives to complete the 124 credits required for graduation. These electives may be taken in any school or college within the University. No more than four credits may be in physical education.

SPORT MANAGEMENT MINOR

The 18 credit minor in Sport Management is designed for students who are interested in pursuing a career path in the sport industry along with their chosen major. Students selecting this minor in sport management should have an interest in learning about the business, communications, marketing, event

planning, economic, global, and legal aspects of the sport industry.

1. Applicants are admitted on a space-available basis. To be eligible, students must: have a cumulative GPA of 3.5 or above;
2. have completed a minimum of 30 credits at Syracuse University in courses graded A-F;
3. have successfully completed COM 107 as a prerequisite into the SPM minor (COM 107 is open to the University community spring semester only);
4. submit an application;
5. submit a three-page written essay to the minor coordinator in Sport Management explaining their plan of study and industry focus;
6. declare a minor no later than the first semester of their junior year.

Deadlines for applying for the minor are November 1 for spring admission and April 1 for fall admission.

Required core courses (12 credits)

SPM 205 Principles of Sport Management (prereq for all SPM courses) (3 credits)

SPM 215 Principles of Sales in Sport (3 credits)

OR

SPM 225 Managing Sport Organizations (3 credits)

SPM 315 Sport Finance (3 credits)

SPM 415 Sport Law (3 credits)

Two additional courses from any of the following:

SPM 300 Selected Topics: **Olympic Odyssey** (3 credits)

SPM 324 Sport Event Sponsorship (3 credits)

SPM 325 Sport Communication (3 credits)

SPM 340 Sports, Media, and Society (3 credits)

SPM 381 International Sport Relations (3 credits)

SPM 395 Psycho-Social Issues in Sport (3 credits)

SPM 444 Sport Marketing Management (3 credits)

Courses

Child And Family Studies

CFS 201 **Family Development** 3 Y

Theoretical and functional approach to marital and family life with a developmental perspective. Issues related to marital and parental careers.

CFS 202 **Dev't/ Young Child/Family** 3 Y

Principles and patterns of child and youth development. Influence of biological and experiential factors. Extra-familial and intra-familial relationships as they influence child and youth development. Fieldwork or equivalent required.

CFS 204 **Applied Research Methods in Child and Family Studies** 3 Y

Critical evaluation of research studies, development of basic skills for conducting research and application of research knowledge and skills in practical settings. COREQ: PSY 252 OR MAT 122 OR MAT 222 OR MAT 286 OR MAT 296 OR MAX 201..

CFS 255 **Interpersonal Competence** 3 Y

Interpersonal problem-solving skills. Helping theories appropriate to human development settings. Skills and behaviors that apply theory to practice setting.

CFS 270 **Experience Credit** 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

CFS 282 **Comm'y Services Seminar** 4 IR

Supervised field placement and concomitant weekly seminar. Advanced skills used in the field setting. Integration of concepts and practices as they apply in the family- and community-service setting.

CFS 290 **Independent Study** 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

CFS 300 **Selected Topics** 1-3

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

CFS 325 **Introduction to Child Life** 3 Y

Basic child life theory and practice focused on improving healthcare experiences for children and families by providing play, preparation and education programs in pediatric settings. PREREQ: CFS 202.

CFS 331 **Play, Childhood Development and Early Education** 3 Y

Importance of play for children's overall development; the roles of parents and teachers in supporting children's play from infancy through early school age; enriching classroom play; diversity and special needs considerations. PREREQ: CFS 202.

CFS 335 **Issues and Perspectives in Early Childhood Education** 3 Y

Major approaches, theoretical rationale, research bases, and policy issues related to child care and educational models. PREREQ: CFS 202.

CFS 345 **The Developing Infant** 3 Y

Double Numbered with: CFS 645
Pregnancy and neonatal and child development from birth to three years. Theory and research findings: biological, psychological, and family. Systematic observations of infants. PREREQ: CFS 202.

CFS 358 **Prosocial & Moral Dvlpmnt** 3 IR

Theories and research on familial, societal, and cultural variables related to pro-social and moral development in infants and young children. Child observation required. PREREQ: CFS 202.

CFS 363 **Intro to Gerontology** 3 Y

Multidisciplinary overview of phenomenon of human aging. Interrelationships of age-related changes and the contemporary status of older people.

CFS 365 **Lang Dev in Childr & Fam** 3 Y

Double Numbered with: CFS 665
Psycholinguistic theories and child language research.-Social class, cultural, familial, and dialectical influences. Language enrichment programs and assessments. Systematic observations of child language required. PREREQ: CFS 202.

CFS 367 **Child and Family in Cross-Cultural Perspectives** 3 Y

Introduction to field methods, the study of childhood, sex roles, and family in cross-cultural perspectives.

CFS 377 **Children/Black Families** 3 Y

Differences and similarities in environmental influences, parenting styles, cognitive development, and expectations and responsibilities of children within the black family.

CFS 382 **Immigrant Families and Children** 3 Y

Family functioning in immigrant families in the United States. Psycho-social adjustment, physical health and well-being, economic conditions, employment patterns, parent-child relationships, schooling, identity, and community relations.

CFS 387 **Int Rel & Gender Roles** 3 Y

view of marriage and the couple relationship in contemporary society. Relationship development, maintenance, and termination; conflict resolution skills; ethnic/racial and cultural variations; and issues related to gender. PREREQ: CFS 201.

CFS 388 **Human Sexuality** 3 S

Basic issues and information.

CFS 389 **Leading Human Sexuality Discussion Groups** 3 Y

Preparing students to effectively lead discussion groups on human sexuality and relationships with peers. PREREQ: CFS 388.

CFS 395 **Seminar: Family and Child Intervention** 3 Y

Opportunities for upper-division students to apply their knowledge bases to economic, political, and social issues that impinge on how children and families can be expected to function in the larger society. PREREQ: CFS 201,202.

CFS 422 **Work and Family in the 21st Century** 3 Y

Crosslisted with: SOC 422, WGS 422
Examines the social, demographic, and economic forces that are reshaping the boundaries between family and work.

CFS 432 **Foundations and Principles of Early Childhood Education** 3 S

Includes practicum in preschool setting. Developmentally appropriate and integrated learning experiences. PREREQ: CFS 202, CFS 335.

CFS 433 **Child Practicum** 3 S

Seminar and supervised internship in diverse educational and social agencies that serve the needs of children and their families. Applying theory to practice, learning to work within agencies, and identifying career goals. PREREQ: CFS 432.

CFS 447 **Principles and Practices in Parenting** 3 Y

In-depth examination of major perspective and research on parenting practices and parent-child relationships. PREREQ: CFS 201.

CFS 448 **Contemp Amer Famly&Commn** 3 IR

Subsystems of a community. How community resources affect family systems, residential patterns, and other factors with regard to social, geographic and economic mobility. PREREQ: CFS 201.

CFS 470 **Experience Credit** 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. For child development majors only. R

CFS 479 **Power, Conflict, Violence, and the Family** 3 Y

Crosslisted with: WGS 479
Introduction to power and conflict in intimate and familial relations. Neglect, abuse, molestation, rape, battering, and violence. PREREQ: CFS 201.

CFS 485 **Family Life Education** 3 IR

Systematic analysis of the historical development, theoretical perspectives, program models, research, and social class variations in presenting family life. PREREQ: CFS 201,202.

CFS 487 Critical Incidents Fam Dev 3 IR
Impact of various crises upon the family system: alcoholism, disease, death, marital discord, mental retardation, unemployment, etc. Opportunity for investigation of areas of special interest.
PREREQ: CFS 201.

CFS 490 Independent Study 1-6 S
In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

CFS 493 Youth and Family Practicum 3 Y
Seminar and supervised internship in the community designed to apply theory to practice by developing skills in working with children, youth and families, learning to work within an organization, and identifying career goals.
PREREQ: CFS 201, CFS 202.

CFS 494 Youth and Family Practicum II 3 Y
Seminar and supervised internship designed to promote the professional development of human service workers and to identify and implement evidence-based practices with clients in a community setting.
PREREQ: CFS 493.

CFS 499 Honors Thesis 1-6 SI
Upper-division student with an overall GPA of 3.0 or better and approval of advisor to pursue an original problem under faculty supervision.

CFS 534 Practicum/Early Childhood Ed 3 IR
Planning and implementing curriculum for prekindergarten or kindergarten children. Fieldwork and seminar.
COREQ: EDU 508.

CFS 535 Quality Infant Care Giving 2-3 SI
Crosslisted with: EDU 535
Workshop. Research theories and demonstrations of infant/toddler care, development, and assessment; group care, legal and budgeting issues, and work with parents.

CFS 557 Sep & Div: Impct/Chld&Fam 3 IR
Social and psychological issues, theories, and research.

CFS 577 Urban Family Problems 3 IR
Past, present, and projected public policies to resolve urban family problems. Urban housing, crime and criminal processing, health, urban diversity, and social science policies introduced to eliminate these problems.

CFS 597 Day Care Administration 3 SI
Prepares students to administer, coordinate, promote, consult, and assist in the start-up and development of child day care services.
PREREQ: CFS 432.

Health And Wellness

HTW 121 Personal and Social Health 3 S
Examines behavioral and social factors influencing the health of young adults.

HTW 221 Health Promotion Across the Life Span 3 S
Health professional's role in health promotion and illness prevention, includes service-learning opportunities.

HTW 227 Healthy You Practicum 1 S
Explores student interests and skills in health writing, illustration, photography and layout/design in the context of developing a health newsmagazine for college students. R7, 8 credits maximum

HTW 270 Experience Credit 1-6 S
Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

HTW 290 Independent Study 1-6 S
In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

HTW 300 Selected Topics 1-3 IR
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

HTW 301 Holistic Healing Practices 3 Y
Explores historical backgrounds, techniques, research findings, and health impacts of selected holistic health practices. Includes guest expert demonstrations and guided participation, and opportunities for self-care. Addresses professional roles, training, certification, and resources.

HTW 302 Influencing Healthy Behavior 3 Y
Factors influencing the adoption and maintenance of healthy behaviors.
PREREQ: HTW 121.

HTW 303 Community and Environmental Health 3 Y
Examination of health problems facing groups and communities, including those associated with environmental hazards.

HTW 304 Community Health Education 3 Y
Role of the community health educator in the health care delivery system; examination of theory and research in community-level health promotion.
PREREQ: HTW 221; COREQ: HTW 311.

HTW 305 Community Mental Health Promotion 3 Y
Examination of factors that create living conditions and environments that support mental health; including the relationship between spirituality and health.

HTW 306 Public Health Administrative Systems 3 Y
The organization of the American Medical and Public Health systems. It will familiarize students with operational aspects of public health programs.

HTW 307 Culturally Competent Health Care 3 Y
Theoretical basis for the provision of culturally competent health care.

HTW 309 Health Disparities and Vulnerable Populations 3 Y
Examines inequalities in health care across selected vulnerable populations.

HTW 311 Health Literacy 3 Y
Explores links between literacy and health; principles and strategies of effective health care communication; includes principles of informed and shared decision-making.

HTW 318 Alcohol, Other Drugs, Sex and Gambling: Dynamics of Addiction 3 S
Double Numbered with: HTW 618
The biological, psychological, and social factors of substance use and related addictions that exist across cultures and species. Additional work required of graduate students.

HTW 382 Health in the Middle East 3 IR
Crosslisted with: ANT 382, MES 382
Surveys major cultural, biological and environmental features of the Middle East and relates them to aspects of health including infectious disease, chronic disease, reproductive health, population, war, poverty and globalization.

HTW 401 Epidemiology 3 Y
Methods used in the study of the etiology, distribution, and control of disease. Requires prior completion of the Quantitative Skills Requirement.

HTW 402 Implementing and Evaluating Health Programs 3 Y
Strategies for implementing and evaluating health programs.
COREQ: HTW 304, HTW 311..

HTW 403 Community-Based Health Policy and Research 3 Y
Knowledge and skills for conducting community-based participatory health research and its influence on affecting health policy.

HTW 405 Cognitive Behavioral Approaches to Stress Reduction 3 Y
Double Numbered with: HTW 605
Students will learn mindfulness practices for professional self-care and as therapeutic modalities. Examining stressors mindfully through focused attention on the present. Separately observing the mind's cognitive and emotive reactions to present, past and anticipated events. Additional work required of graduate students.

HTW 406 Clinical Evaluation and Assessment of Addictions 3 Y
Double Numbered with: HTW 606
Pre-treatment tools for engaging individuals in the evaluation and assessment of potentially problematic use of addictive and other addictive behaviors. Emphasizes the bio-psycho-social underpinnings of addictions. Role of the counselor as change agent. Additional work required of graduate students.
PREREQ: HTW 318.

HTW 407 Wellness Counseling and Coaching: Overcoming Resistance to Change 4 Y

Double Numbered with: HTW 607
Knowledge of the philosophies, practices, policies and outcomes of models of behavior change. Motivational interviewing and solution-focused approaches to addictions counseling. Individual counseling, goal setting and relapse prevention techniques. Includes 30 hours of practice laboratory. Additional work required of graduate students.

HTW 408 Addictions in Cultural Context 3-4 Y

Double Numbered with: HTW 608
Exploration of the role played by drugs in different societies, and follows the dissemination of different substances in the process of cultural encounters. Includes an optional summer component in the Netherlands. Additional work required of graduate students.
COREQ: HTW 318.

HTW 409 The Impact of Addictions on Families and Relationships 3 Y

Double Numbered with: HTW 609
Knowledge of effects of chemical dependency on family, significant others and the importance of family support in recovery. Knowledge of basic family treatment approaches. Additional work required of graduate students.

HTW 410 Addictions Treatment Planning and Referral 3 Y

Double Numbered with: HTW 610
Treatment, planning, clinical record keeping, and discharge planning in addition to individual and group, recovery models, replacement therapy, and dual-diagnosis. Additional work required of graduate students.
PREREQ: HTW 406.

HTW 415 Public Health Ethics 3 Y

Double Numbered with: HTW 615
Ethical issues in public health, including legal and policy responses. Role of religious and social values in setting health policy. Additional work required of graduate students.

HTW 422 Senior Capstone Internship 9 S

Supervised professional internship in public health; 400 hours required. Seminar included. Students must have completed all HTW core courses except for HTW 401, 306 and 309.
PREREQ: HTW 302, 303, 304, 307, 402, AND 403.

HTW 462 Culture and Reproductive Health and Medicine 3 IR

Crosslisted with: ANT 462, WGS 462; Double Numbered with: HTW 662
Cultural anthropological approaches to cross-cultural variations in reproductive practices (pregnancy, childbirth, infertility, etc.) Impact of globalization, biomedicalization, international development on reproduction and reproductive health. Medical anthropology and gender studies.

HTW 463 Global Health 3 Y

Crosslisted with: ANT 463; Double Numbered with: HTW 663
Global health in anthropological perspective. Examines how culture affects people's experience and response to morbidity and mortality. Considers topics like gender and health, reproductive health, infectious disease, health and inequality and health and war.

HTW 470 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

HTW 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

Hospitality Management

HPM 100 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

HPM 101 Introduction to the Hospitality Industry 3 Y

An overview of the broad field of hospitality management, including business styles, scope of the industry, and careers.

HPM 114 Food Safety and Quality Assurance 2 Y

Crosslisted with: NSD 114
Theory and practice of food safety and quality assurance in commercial food service operations. Origins and prevention of food-borne illness. Development and management of HACCP-based food safety systems.

HPM 115 Food Science I 3 S

Crosslisted with: NSD 115
Explore principles of food science and preparation, including basic physical and chemical properties of food and the relationship to nutrition. Students analyze aspects of food quality and safety and apply concepts to hands-on production.

HPM 200 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

HPM 201 Professional Baking 3 IR

Fundamentals. Bakeshop production and control, formulas, basic measurement, conversions, ingredients, the baking process, basic mixes, and doughs.
PREREQ: HPM 115.

HPM 214 Menu Development 3 Y

Topics in food service management and hospitality centered on menu development related to food event planning, customer service, hospitality principles, standardized recipes and yields, quality assurance, and international and American regional cuisine.
PREREQ: HPM/NSD 115, 216; COREQ: HPM/NSD 115, 216.

HPM 216 Restaurant and Food Service Operations 4 S

Crosslisted with: NSD 216
Principles, concepts and application of food preparation, service, supervision and management techniques. Menu planning, production control, budget and event planning.
PREREQ: HPM 115 OR NSD 115. COREQ: HPM 115 OR NSD 115..

HPM 217 World Cuisines 3 IR

Traditional foods of different countries and cultures. Equipment and ingredients unique to ethnic foods.
PREREQ: HPM 115.

HPM 219 Catering 3 IR

Planning, organizing, pricing and contracting for special events in off and on premise situations. Menu development and sanitation, staffing, equipment requirements and constraints. Practical application through catered functions throughout the semester.

HPM 222 Introduction to Culinary Arts 3 S

Culinary theory and practice. Ingredient identification, sensory evaluation, ethnic ingredients, cultural preparation methods, and plate presentation. Menu development for non-commercial applications. Laboratory intensive hands-on preparation and practice.

HPM 231 Hospitality Guest and Employee Relations 3 IR

Management of the guest experience in hospitality. Guest relations and employee supervision in hotels, restaurants, clubs, etc. Meeting guest expectations, developing a hospitality culture, etc. Employee supervision, training performance, reviews, union and non-union operations.

HPM 270 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

HPM 290 Independent Study 1-6 IR

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

HPM 300 Selected Topics: Hospitality Management 1-3

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

HPM 307 Casino Operations 3 IR

Casino operations and management, including games, probability, and statistics; odds and payout, terminology, revenue projections, controls and regulations, marketing/advertising/promotion strategies.

HPM 308 Member Club Management 2 IR

Discussion of private, semi-private and public clubs with an increase of leisure time/income. An in-depth look at clubs, their operations, memberships, and more.

HPM 309 Sports Arena Management 3 Y

Discussion of growth of spectator sports; construction of arenas, stadiums, coliseums and convention centers; the complexities of managing facilities, products, services, labor, security and special events. Sophomore standing.

HPM 312 Cost Control in Food Services 3 Y

Crosslisted with: NSD 312

Systems and procedures required to establish, maintain, and control all segments of revenue and cost within the food service operation. Application to human, material, and mechanical structure of food service establishments.

PREREQ: HPM 115 OR NSD 115. COREQ: HPM 115 OR NSD 115..

HPM 313 Event, Conference, and Convention Planning 3 Y

Organization, set-up, planning and execution of events, conferences and conventions. Includes field trips, guest speakers, and tours. PREREQ: HPM 114, HPM 115, HPM 216.

HPM 314 Hospitality Human Resources Management 1-3 Y

Crosslisted with: NSD 314

Examination of human resource policies, practices, and systems required to attract, develop, and retain customer-focused employees. Emphasis on human resource issues within a diverse workforce. Instruction based classroom lecture, discussion, case studies and projects.

PREREQ: HPM 216 OR NSD 216.

HPM 316 Hospitality Products and Procurement 3 Y

Principles, standards, procedures, and controls for the selection, purchase, receiving, storage, and issue of food and supplies. The market: functions, ethics, regulations, and laws. Textiles, china, chemicals, etc.

HPM 318 Food Retailing 3 SI

Principles and practices of product merchandising in the successful operation of food services.

PREREQ: HPM 312.

HPM 321 Hotel and Resort Operations 3 Y

An overview of several styles of hospitality operations including bed and breakfast, casinos, resorts, and convention hotels. Field trips are required.

HPM 325 Nutrition in Hospitality Industry 3 IR

Crosslisted with: NSD 325

Food and nutrition concerns of various population groups; needs addressed by the food service industry. Regional and cultural food implications.

HPM 329 Hospitality Marketing 3 Y

A practical and functional look at the entire approach to marketing in the hospitality industry. Preparation and execution of marketing and sales action plans, advertising, public relations, research and competitive analysis.

HPM 376 Hospitality Industry Work Experience 0-3 Y

Individual work experience related to student's major area of interest and career goal. On-the-job experience integrated with classroom theory.

HPM 385 Budget and Finance for Hospitality Management 3 Y

Hospitality financial analysis procedures and techniques including budgeting, ratio analysis, pricing strategies, make or buy decisions, lease or purchase decisions. Theory and application will be stressed through examples and scenarios.

PREREQ: ACC 155 OR ACC 201, HPM 312.

HPM 400 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

HPM 411 Senior Seminar 1 IR

Current issues within the hospitality industry. Preparation and delivery of a paper based on practicum experience.

PREREQ: HPM 376.

HPM 412 Wine Appreciation 2 S

Wine types, varieties, terminology, labeling and regulation. Sensory evaluation of wines, wine lists and matching wine and food. Must be 21 years of age. Prereq: Permission of instructor. Students can only receive credit for HPM 412 or HPM 422.

HPM 413 Beverage Operations Management 3 Y

Procurement, issuing, merchandising and controlling wines, spirits, beers, coffees, teas, and non-alcoholic beverages in lodging and food service operations. Sensory evaluation of and relationship to food. Proof of age for tasting. Hospitality Management majors only.

HPM 414 Hospitality Facilities Planning and Design 3 Y

Principles of facility planning, layout and design for food service, lodging and resort operations. Hospitality Management juniors and seniors or p.o.i.

HPM 415 Advanced Training and Evaluation Methods for the Hospitality Industry 3 Y

Design, implementation, evaluation of formal and informal training programs. Management strategies for guiding organizational change as it relates to training and development.

Lecture, case studies and projects. Hospitality majors, junior or senior standing.

PREREQ: HPM 314.

HPM 416 Cultural Cuisine 1-3 SI

An exploration of various cultural cuisines.

Topics explored include food and cooking, history, menus, specialty foods and cooking techniques within the context of the culture. Permission of instructor.

PREREQ: HPM 215 OR HPM 216. R2, 3 credits maximum

HPM 417 Advanced Restaurant Operations 3 SI

Application of operational techniques and procedures including menu planning, costing, scheduling and staff planning, menu design, advertising and promotion, preparation of pre- and post-financial statements, implementation and monitoring of control measures.

PREREQ: HPM 214, HPM 216, HPM 312.

HPM 418 Hospitality Management Capstone 4 Y

Intensive group activities requiring the integration of program competencies. Groups develop comprehensive business plans which are critiqued by a panel of faculty and industry professionals. Senior standing.

HPM 419 Hospitality Law 3 Y

Legal concepts including civil rights, contract law, negligence, bailments, food and alcohol liability, warranty of merchantability and employment laws to develop management strategies, policies and procedures in hospitality operations.

PREREQ: HPM 216, HPM 314.

HPM 421 Ethics and Issues in the Hospitality Field 3 Y

Analysis of business and social issues in hospitality operations and management from a local and global perspective. Application of ethical theories to problem solving and workplace policy development using class debate, discussion and service learning.

HPM 422 Wine and Beer Appreciation 2 S

Ingredients, processes and laws. Sensory evaluation and discussion of still and sparkling wines and beers. Student must be 21 years of age. Students may not take both HPM 412 and HPM 422.

HPM 470 Experience Credit 1-6 S

Participation in a discipline or subject related experience. Student must be evaluated by written or oral reports or an examination. Permission in advance with the consent of the department chairperson, instructor, and dean. Limited to those in good academic standing. R

HPM 490 **Independent Study 1-6 S**

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

HPM 500 **Selected Topics 1-3 IR**

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

Human Services And Health Professions

HSH 101 **First-Year Gateway 1 Y**

Academic and psycho-social tasks associated with successful transition to college and the first-year experience. Focus on assisting students in acquiring academic, personal, and interpersonal knowledge and skills necessary for college success.

HSH 201 **Pathways: A Career Exploration Learning Community 1 Y**

Strategies to improve career development decision-making enabling the student to strategically choose academic programs and other opportunities consistent with interest and abilities.

Marriage And Family Therapy

MFT 400 **Selected Topics 1-3**

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

MFT 425 **Lust, Love and Relationships 3 Y**

The intricate dynamics of relationships ranging from "for what and why" individuals are attracted to each other to "why and how" individuals become embroiled in seemingly irresolvable conflict across a variety of social contexts.

MFT 567 **Sexual Issues for the Helping Professional 3 SS**

Sexual abuse, sexual assault, sexual dysfunction, sex and disability, and nontraditional sexual relationships. Introduction to educational and therapeutic intervention.

Nutrition Science And Dietetics

NSD 114 **Food Safety and Quality Assurance 2 Y**

Crosslisted with: HPM 114
Theory and practice of food safety and quality assurance in commercial food service operations. Origins and prevention of food-borne illness. Development and management of HACCP-based food safety systems.

NSD 115 **Food Science I 3 S**

Crosslisted with: HPM 115
Explore principles of food science and preparation, including basic physical and chemical properties of food and the relationship to nutrition. Students analyze aspects of food quality and safety and apply concepts to hands-on production.

NSD 216 **Restaurant and Food Service Operations 4 S**

Crosslisted with: HPM 216
Principles, concepts and application of food preparation, service, supervision and management techniques. Menu planning, production control, budget and event planning. PREREQ: NSD 115.

NSD 225 **Nutrition in Health 3 S**

Nutrient requirements, functions, and sources. Interrelationships and application to food selection for healthy individuals. Weight control, sports nutrition and dietary supplements are discussed.

NSD 275 **Food Service Systems 3 Y**

Interrelationship of subsystems within food service environments. Subsystems studied include: menu development, procurement, preparation, cooking, delivery systems, sanitation, budgeting, human resource management, and facility planning. PREREQ: NSD 115.

NSD 290 **Independent Study 1-6 S**

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

NSD 312 **Cost Control in Food Services 3 Y**

Crosslisted with: HPM 312
Systems and procedures required to establish, maintain, and control all segments of revenue and cost within the food service operation. Application to human, material, and mechanical structure of food service establishments. PREREQ: NSD 115.

NSD 314 **Hospitality Human Resources Management 1-3 Y**

Crosslisted with: HPM 314
Examination of human resource policies, practices, and systems required to attract, develop, and retain customer-focused employees. Emphasis on human resource issues within a diverse workforce. Instruction based classroom lecture, discussion, case studies and projects. PREREQ: NSD 216.

NSD 325 **Nutrition in Hospitality Industry 3**

Crosslisted with: HPM 325
Food and nutrition concerns of various population groups; needs addressed by the food service industry. Regional and cultural food implications.

NSD 326 **Practice of Dietetics 3 Y**

Laboratory application of nutrition science to dietetics. Introduction to tools and techniques used in dietetic practice. PREREQ: NSD 225. COREQ: NSD 225.

NSD 329 **Pediatric Diabetes 1 Y**

An overview of causes, characteristics and nutrition guidelines and recommendations for children with diabetes. PREREQ: NSD 326.

NSD 342 **Nutrition in the Life Span 3 Y**

Human nutritional needs related to health promotion and prevention of disease throughout the life cycle. Factors influencing nutritional status and requirements during various stages are emphasized. PREREQ: NSD 225.

NSD 343 **Dietary Supplements 3 Y**

Explores dietary supplement regulations in USA; available supplements emphasizing weight loss, athletic performance, herbal supplements; risks and benefits, marketing, reliable information sources. PREREQ: NSD 225.

NSD 354 **The Mediterranean Diet: Exploring Food, Wine, Culture & Health in Florence 3 Y**

Students will experience one of the most renowned cuisines in the world from a food systems level to dietary patterns and health risks via lectures, readings, field trips and excursions form the SU Florence campus.

NSD 371 **Dietetics Experience I 1 IR**

Clinical experience related to nutritional needs throughout the life cycle.

NSD 425 **Nutrition for Fitness and Sports 3 Y**

Double Numbered with: NSD 625
Energy needs of activity and effect of dietary intake on performance. Special dietary requirements of specific sports and athletic activities. Dietary ergogenic aids; weight control; sports fads and myths; interaction of alcohol, caffeine, and tobacco on nutrition. PREREQ: NSD 225.

NSD 447 **Weight Management, Obesity and Disordered Eating 3 Y**

Double Numbered with: NSD 647
Basic principles of weight management and role of nutrition and physical fitness in weight control. Causes, characteristics, and treatment of anorexia nervosa, bulimia, pica, and obesity; strategies for nutritional management. Additional work required of graduate students.

NSD 455 **Community Nutrition 3 Y**

National, state, and local programs designed to meet food, nutrition, and health needs of vulnerable groups. Roles and functions of nutritionists in the community.

NSD 456 **Nutritional Biochemistry 4 Y**

Structure of carbohydrates, lipids and proteins; their functions and interactions in a complex organism. Major reactions and regulation of metabolic pathways. For nutrition majors. PREREQ: CHE 106, CHE 116, BIO 216, BIO 217.

NSD 457 **Research and Evaluation in Nutrition 3 Y**

Integrates an understanding and application of research methods in nutrition science. Requires evaluation of current research and builds on knowledge gained from other courses and applies it to research and evaluation. COREQ: NSD 456 | PREREQ: NSD 456.

NSD 458 Participatory Program Planning
3 IR

Double Numbered with: NSD 658
Participate with community of choice and research to produce a plan applying the steps of the PRECEDE-PROCEED model to develop a health promotion program. Additional work required of graduate students. PREREQ: NSD 225.

NSD 461 Community Nutrition Experience 1-3 Y

Site visits and field experience with national, state, and local programs designed to meet food, nutrition, and health needs of vulnerable groups. Roles and functions of nutritionists in the community. Nutrition majors only. PREREQ: NSD 455.

NSD 466 Advanced Nutrition 3 Y

Metabolic processes of the body. Interrelationships and interdependence of nutritional factors. PREREQ: NSD 225, NSD 456, BIO 216, 217.

NSD 470 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

NSD 476 Nutrition Seminar 1 Y

Trends and opportunities in dietetics; entrepreneurship; quality assurance; assessment of personal and professional goals, development of career plan.

NSD 477 Senior Nutrition Seminar II 1 Y

Showcase the outcomes of the four year nutrition program by presenting your research, portfolio engaging in a networking event and completing the fourth year assessment. Senior standing. PREREQ: NSD 476 AND NSD 457.

NSD 481 Medical Nutrition Therapy I 3 Y

Double Numbered with: NSD 681
Nutrition problems in adapting food habits for physical and metabolic alterations caused by selected disease states, within the context of the nutrition diagnostic and care process. Additional work required of graduate students. PREREQ: NSD 225 AND BIO 216 AND 217; COREQ: NSD 482..

NSD 482 Medical Nutrition Therapy I Lab 1 Y

Double Numbered with: NSD 682
Application of the nutrition care process, model, and diagnostic language for selected disease states to solve clinical nutrition problems. Additional work required of graduate students. PREREQ: NSD 225 AND BIO 216 AND BIO 217; COREQ: NSD 481.

NSD 483 Medical Nutrition Therapy II 3 Y

Double Numbered with: NSD 683
Nutrition problems in adapting food habits for physical and metabolic alterations caused by selected disease states within the context of the nutrition diagnostic and care process. Continuation of NSD 481/681. Additional work required of graduate students. PREREQ: NSD 481. COREQ: NSD 484.

NSD 484 Medical Nutrition Therapy II Lab 1 Y

Double Numbered with: NSD 684
Application of the nutrition care process, model, and diagnostic language for selected disease states to solve clinical nutrition problems. Continuation of NSD 482/682. Additional work required of graduate students. PREREQ: NSD 482. COREQ: NSD 483.

NSD 497 Research Experience 1-3 IR

Laboratory, clinical, or community-based research under direct supervision of NSD department faculty. Projects incorporate use of scientific methods, (quantitative and qualitative), data analysis, presentation and interpretation, and the responsibilities of research integrity.

NSD 500 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

NSD 505 Nutritional Biochemistry Overview 1 Y

Brief overview of structure/function of atoms and molecules of biological importance. Structure/function of proteins, carbohydrates and lipids in the complex biological environment. Introduction to metabolic pathways involved in utilization of energy nutrients. PREREQ: CHE 106.

NSD 511 Nutrition Education 3 Y

A theoretical basis for nutrition education and opportunity to develop skills for a wide variety of individuals. PREREQ: NSD 225, NSD 342.

NSD 512 Nutrition Counseling 3 Y

A theoretical basis for counseling related to nutrition and increase opportunities to develop nutrition counseling skills for a wide variety of individuals. PREREQ: NSD 225, NSD 511, NSD 342, NSD 481, NSD 482.

NSD 513 Nutrition Education Experience 1 Y

Prepare, disseminate and evaluate nutrition education curriculum for peer or other audiences. Provide nutrition education on campus and in the community through table events, group presentations, and media campaigns. PREREQ: NSD 511. R4, 5 credits maximum

NSD 515 Physical Assessment and Multiskilling for Dietitians 1 S

Practice and skill validation in basic cardiovascular, respiratory, abdominal, muscular, and integumentary assessment. Diabetes and enteral feeding management PREREQ: NSD 481 OR NSD 681.

NSD 555 Food, Culture and Environment
3 Y

Crosslisted with: WGS 555
Understand the environment in which nutrition education and communication occur. The broader environment includes cultural diversity, the food system from farm to table, as well as functionality of food components. PREREQ: NSD 115, NSD 225.

Social Work

SWK 115 Introduction to Social Work 3 S

Roles social workers assume in professional practice; social context within which practice occurs; major fields of practice; field trips to local agencies.

SWK 201 Social Work Practice Skills 3 Y

Laboratory exercises to develop basic social work skills with individuals, families, groups, organizations, and communities. Relevant practice contexts and theoretical background provided for the exercises.

SWK 202 Social Work Practice Skills 3 Y

Laboratory exercises to develop basic social work skills with individuals, families, groups, organizations, and communities. Relevant practice contexts and theoretical background provided for the exercises. PREREQ: SWK 201.

SWK 301 Foundations of Social Work Practice 3 Y

Phases in social work practice using an ecological systems paradigm to integrate social work practice theories and associated research. Principles to guide individual, family, group, organization, and community dimensions of practice. Social work majors only. PREREQ: SWK 201,202,326.

SWK 314 Social Welfare Policy and Services I 3 Y

Historical and contemporary social welfare policy and programs. Influence of social, political, and economic forces. Implications of prejudice and discrimination. Poverty and income maintenance alternatives.

SWK 315 Social Welfare Policy and Services II 3 Y

Structure and organization of public and voluntary income maintenance, health, mental health service delivery system. Cultural, racial, ethnic, gender diversity. Policy analysis frameworks. Social work roles, values.

SWK 326 Persons in Social Context 3 Y

Crosslisted with: WGS 326
Assessment of behavior of diverse individuals, groups, and social systems. Applying concepts from the biological, behavioral, and social sciences in identifying and understanding forms and causes of behavior.

SWK 328 Human Diversity in Social Contexts 3 Y

Crosslisted with: WGS 328

Diversity, including race, gender, sexual orientation and selected topics. Examines individual, group, and institutional identity formation. Theories of biopsychosocial development, reference group affiliation, social stratification, oppression, and institutional discrimination. Implications for social work practice.

SWK 357 Processes of Aging 3 SI

Double Numbered with: SWK 657

Intrinsic aging processes, changing needs, and characteristics of aging populations, and the impact of age related forces in American society, with special attention to aged groups disadvantaged by virtue of race, ethnicity, gender, sexual orientation, disability, and poverty. Additional work required of graduate students.

PREREQ: SWK 326.

SWK 361 Foundations of Social Work Research 3 Y

Research methods including problem formulation, measurement, sampling, research design, data collection and analysis, and report preparation. Application of research methods to critical analysis of research reports and to issues associated with evaluation of social work practice.

SWK 400 Selected Topics 1-3 Y

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

SWK 401 Strategies of Social Work Intervention I 3 Y

Design, implementation, and evaluation of intervention strategies in social work practice. Intervention with individual, families, and groups in the context of agencies, organizations, and communities. Concurrent field placement.

PREREQ: SWK 301, 315, 326, 328, 361
COREQ: SWK 435, 436.

SWK 402 Strategies of Social Work Intervention II 3 Y

Design, implementation, and evaluation of intervention strategies in social work practice. Intervention with individual, families, and groups in the context of agencies, organizations, and communities. Concurrent field placement.

PREREQ: SWK 301, 315, 326, 328, 361
COREQ: SWK 445, 446.

SWK 435 Field Practicum I 5 Y

Field practice experience in a selected social service agency setting to apply and integrate skill, cognitive, and affective learning within a formalized service system.

COREQ: SWK 401, 436.

SWK 436 Field Seminar I 1 Y

Integration of theory and practice through cognitive examination of students actual field experience associated with SWK 435.

COREQ: SWK 401, 435.

SWK 445 Field Practicum II 5 Y

Field practice experience in selected social service setting to apply and integrate skill, cognitive and affective learning within a formalized service system.

PREREQ: SWK 401, 435, 436 COREQ: SWK 402, 446.

SWK 446 Field Seminar II 1 Y

Integration of theory and practice through cognitive examination of student's actual field experiences associated with SWK 445.

PREREQ: SWK 401, 435, 436 COREQ: SWK 402, 445.

SWK 450 Topics in Gerontology 1-6 SI

Modules focused on current issues, developments, and methods in gerontological social work. Emerging developments in theory, legislation, programming, and priorities among selected aging populations. Topics vary each semester. R

SWK 470 Experience Credit 1-6 SI

Participation in a discipline or subject related experience. Student must be evaluated by written or oral reports or an examination. Permission in advance with the consent of the department chairperson, instructor, and dean. Limited to those in good academic standing. R

SWK 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study based on a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

Sport Management

SPM 101 Personal and Social Responsibility 3 Y

Designed to assist students in coping with the transition and challenges of college, athletic life, and beyond. The course will promote students ownership of their academic, athletic, personal and social responsibility.

SPM 199 The Super Bowl: Sport, Culture and Entertainment 3 IR

The evolution and strategic brilliance that has allowed a football game to become a social phenomena with international audiences, business impact, and cultural implications.

SPM 200 Selected Topics in Sport Management 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

SPM 205 Principles and Contemporary Issues in Sport Management 3 S

Overview of the sport industry through examination of problems and issues faced by contemporary sport managers. Unique characteristics of sport and resulting social and ethical responsibilities of sport managers are discussed using case study method.

SPM 215 Principles of Sales in Sport 3 S

Sales promotions and management principles required for successful selling in the sport industry. Topics include identification of product segments and markets for ticket sales, promotions, sponsorship, and merchandise. PREREQ: SPM 205.

SPM 224 Introduction to Sport Event Management 3 IR

Students will gain knowledge of the principles and procedures for planning, managing, and implementing a variety of sporting events through an examination of: promotions, marketing, ticketing, hiring, event logistics, risk management, volunteer management, budgeting, and contracts.

SPM 225 Managing the Sport Organization 3 S

Application of management concept and theories to sport organizations and the sport industry. Includes issues of leadership, ethics, organizational design, strategic planning, labor relations, diversity, globalization, and organizational changes. PREREQ: SPM 205.

SPM 270 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. Permission, in advance, of assigned instructor, department chair, or dean. R

SPM 290 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study based on a plan submitted by the student. R

SPM 295 Research Methodology 3 S

Introduction to the basic elements of sport research with an emphasis on APA writing style.

PREREQ: SPM 205 AND WRT 105.

SPM 300 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

SPM 315 Sport Finance 3 S

Analysis of the relationship between finance and the sport industry. Focuses on the financial and economic aspects of sport organizations and on current financial issues relating to professional, collegiate, and Olympic-level sport.

PREREQ: SPM 205.

SPM 324 Sport Event Sponsorship 3 IR

Overview of all elements of sport event sponsorships, including rationale, benefits, proposal development, and solicitations. Students will have the opportunity to apply theoretical concepts through proposal writing and solicitation of sponsorships to an existing sport event.

SPM 325 Sport Communications 3 S

Role of communications in management, news release writing, working with and utilizing the various forms of media, the expanding use of the Internet in sport communications, crisis management, pitching stories, interviews, and ethical issues.

PREREQ: SPM 205.

SPM 334 Sport Event Promotion 3 IR

An overview of promotional principles used in marketing sport events with a focus on strategies of promotional campaigns, public relations, as well as promotional theory. Students will apply theoretical concepts to a promotional campaign for an existing sport event.

SPM 340 Sports, Media and Society 3 IR

The relationship between sport, media and the broader society. Students will explore the interrelationship of the principal mediums, gender, race, identity, sport and the society at-large.

SPM 345 Technology in Sport Management 3 Y

A survey of communication and management technologies in the sport industry. Includes topics of information management, ticketing systems, scoreboard and video-board management, web and graphic design, publication layout and design, statistics management, and facilities operations.

PREREQ: SPM 205.

SPM 381 International Sports Relations 3 IR

Through case studies, this course will examine sport's power as a tool in the domestic and international political arenas. Students will learn how sport can smother dissent, promote hyper-nationalism, protest injustice, and inspire better relations.

SPM 395 Psycho-Social Issues of Sport 3 IR

An in-depth analysis of the psychosocial aspects of sport. Varied psychological and sociological topics as they relate to sport/exercise participation, performance, and enjoyment.

PREREQ: SPM 205.

SPM 415 Sport Law 3 S

Crosslisted with: LGL 415

Introduction and application of law to the sports industry. Legal concepts covered are agency, contract, labor, antitrust, tort, and criminal laws. Special focus on contemporary issues in sports including diversity, Title IX, drugs, and disabilities.

PREREQ: SPM 205.

SPM 444 Sports Marketing Management 3 S

Analytical examination of the sport industry from the strategic marketing perspective of the organizations involved. Emphasizing writing and proposal design.

SPM 455 Senior Sport Management

Capstone 12 S

Supervised professional work experience in the sport industry through positions in professional and intercollegiate sports, arenas, sport marketing and management firms, and other sport entities. Analysis paper and oral presentation required. Senior level standing and permission of advisor and department chair.

SPM 470 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

SPM 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study based on a plan submitted by the student. R

Faculty

Keith Alford, Associate Professor,
Baccalaureate Program Director, Social Work
Ph.D., Ohio State University, 1997

Pamela Allison, Assistant Professor,
Hospitality Management
Ph.D., University of Central Florida, 2009

Tim Barr, Instructor, Hospitality
Management
B.S., Rochester Institute of Technology, 1971

Dessa Bergen-Cico, Assistant Professor,
Health and Wellness
Ph.D., Syracuse University, 1992

Lynn Brann, Assistant Professor, Nutrition
Science and Dietetics
Ph.D., University of Tennessee, 2003

Rick Burton, David B. Falk Professor, Sport
Management
M.B.A., Marquette University, 1991

James Byrne, Professor of Practice, Health
and Wellness
J.D., University of Connecticut, 1985

Paul Caldwell, Associate Professor, Masters
Program Director, Social Work
Ph.D., Brandeis University, 1995

D. Bruce Carter, Associate Professor, Child
and Family Studies
Ph.D., University of Virginia, 1980

Wan-Yi Chen, Assistant Professor, Social
Work
Ph.D., Columbia University, 2004

Kenneth Corvo, Associate Professor, Social
Work
Ph.D., Case Western Reserve University, 1993

Luvania Cowart, Professor of Practice,
Health and Wellness
Ed.D., Syracuse University, 1980

Ellen deLara, Associate Professor, Social
Work
Ph.D., Cornell University, 2000

Thom deLara, Professor of Practice, Chair,
Marriage and Family Therapy
M.S.W., Syracuse University, 1975

Norm Faiola, Associate Professor, Chair,
Hospitality Management
Ph.D., Syracuse University, 1994

Joseph Fanelli, Instructor, Child and Family
Studies
Ph.D., Syracuse University, 1980

Leigh Gantner, Assistant Professor,
Nutrition Science and Dietetics
Ph.D., Cornell University, 2010

Alejandro Garcia, Professor, Social Work
Ph.D., Brandeis University, 1980

Brooks Gump, Associate Professor, Health
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Ph.D., University of California, San Diego,
1995

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Nutrition Science and Dietetics
Ph.D., University of Nebraska, 1996

Juye Ji, Assistant Professor, Social Work
Ph.D., University of Southern California,
2009

Kimberly Johnson, Instructor, Hospitality
Management
M.S., Syracuse University, 2008

Pamela Johnson, Assistant Professor, Social
Work
Ph.D., Case Western Reserve University, 2010

Eunjo Jung, Assistant Professor, Child and
Family Studies
Ed.D., Illinois State University, 2004

Irene Kehres, Assistant Dean, Professor of
Practice, Child and Family Studies
Ph.D., Syracuse University, 2004

Mary Ann Kiernan, Instructor, Hospitality
Management
B.S., Florida International University, 1988

Eric Kingson, Professor, Social Work
Ph.D., Brandeis University, 1979

Karen Kirkhart, Professor, Social Work
Ph.D., University of Michigan, 1979

Ambika Krishnakumar, Associate
Professor, Chair, Child and Family Studies
Ph.D., University of Tennessee, 1997

Linchi Kwok, Assistant Professor,
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Ph.D., Texas Tech University, 2009

Sandra Lane, Professor, Health and Wellness
Ph.D., University of California at San
Francisco and Berkeley, 1988

Eileen Lantier, Associate Dean, Associate
Professor, Health and Wellness
Ph.D., Syracuse University, 1992

Janel Leone, Assistant Professor, Child and
Family Studies
Ph.D., Pennsylvania State University, 2003

Tracey Marchese, Professor of Practice,
Social Work
M.S.W., Rutgers University, 1993

Mary Ann Middlemiss, Associate Professor,
Health and Wellness
Ph.D., Syracuse University, 1987

Mona Mittal, Assistant Professor, Marriage
and Family Therapy
Ph.D., Texas Tech University, 2002

Deborah Monahan, Professor, Social Work
Ph.D., University of Arizona, 1985

Robert Moreno, Associate Professor, Child
and Family Studies
Ph.D., Stanford University, 1995

Nancy Mudrick, Professor, Social Work
Ph.D., Brandeis University, 1976

Diane Murphy, Dean, College of Human
Ecology; Associate Professor
Ph.D., Syracuse University, 1983

Lutchmie Narine, Associate Dean, Associate
Professor, Chair, Health and Wellness
Ph.D., University of Toronto, 1993

Gina Pauline, Assistant Professor, Sport
Management
Ed.D., Ball State University, 2006

Jeff Pauline, Assistant Professor, Sport
Management
Ed.D., West Virginia University, 2001

Jennifer Propp, Assistant Professor, Social
Work
Ph.D., University of Kansas, 2004

Sudha Raj, Assistant Professor; Graduate
Program Director, Nutrition Science and
Dietetics
Ph.D., Syracuse University, 1991

Kamala Ramadoss, Assistant Professor,
Child and Family Studies
Ph.D., Purdue University, 2008

Rachel Razza, Assistant Professor, Child and
Family Studies
Ph.D., Pennsylvania State University, 2005

Jaipaul Roopnarine, Professor, Jack Reilly
Professor of Child and Family Studies
Ph.D., University of Wisconsin, 1980

Patrick Ryan, Instructor, Sport Management
B.S., State University of New York at
Geneseo, 1975

Sarah Short, Professor, Nutrition Science
and Dietetics
Ph.D., Syracuse University, 1975

Carrie Smith, Associate Professor, Director,
Social Work
D.S.W., Howard University, 1998

Kay Stearns Bruening, Associate Professor,
Chair, Nutrition Science and Dietetics
Ph.D., New York University, 1997

Linda Stone Fish, Professor, Marriage and
Family Therapy
Ph.D., Purdue University, 1985

Maureen Thompson, Associate Professor,
Health and Wellness
Ph.D., Syracuse University, 1990

Michael Veley, Professor of Practice, Chair,
Sport Management
M.P.S., Cornell University, 1983

Long Wang, Assistant Professor, Nutrition
Science and Dietetics
Ph.D., Purdue University, 2007

Dyane Watson, Instructor, Marriage and
Family Therapy
Ph.D., Michigan State University, 2007

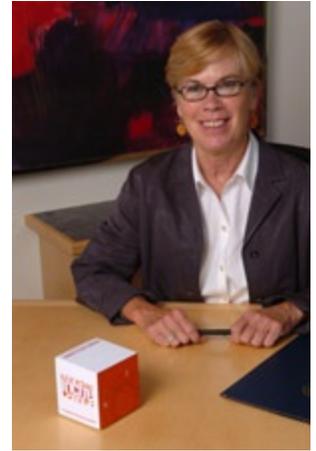
School Of Information Studies

Liz Liddy, Dean
Hinds Hall
ischool.syr.edu

About The School

The School of Information Studies is the Original Information School in the nation. It is a leading center for innovative programs in information policy, information behavior, information management, information systems, information technology and information services. The nationally ranked school (U.S. News and World Report) has professional degree programs at the undergraduate and master's levels and research and professional degrees at the doctoral level. The school offers its master's and graduate certificate programs in campus and online formats.

Our approach stands out from other institutions that offer computer science, management, information science, and related programs in that our focus is on users and user information needs as a starting point for integrating information and information technology into organizations. The faculty combines expertise in information systems, linguistics, computer science, library science, education, business management, school media, digital literacy, management information systems, telecommunications, wireless and emerging technologies, and communication. The faculty are very active in research topics that reflect their diverse intellectual backgrounds and interests.



The Central Themes of the School of Information Studies

Five basic themes express the school's research and teaching mission. These themes define our vision of the information field and provide a focus for both the design of our curriculum and our sponsored research.

The Interrelationship Among the Five Central Themes of the School of Information Studies:

- **Information and Telecommunications Management** considers information and technologies within organizational contexts.
- **Information in the Marketplace** relates how organizations interact with each other and exchanging information and products.
- **Information Representation and Retrieval** forms the building blocks of information systems as well as the processes necessary to enable humans to access and use information.
- **Human-Information Interaction** focuses on people and how the individual or group seeks and uses the products of information representation and retrieval.
- **Information and Society** considers the implications and issues for culture and society of the broad scope of information systems and technologies.

The School of Information Studies offers the following degree programs:

Undergraduate

- Bachelor of Science in Information Management and Technology
- Dual Major in Information Management and Technology and Whitman School of Management
- Dual Major in Information Management and Technology and Newhouse School of Public Communications
- Minor in Information Management and Technology
- Minor in Global Enterprise Technology

Graduate

- Master of Science in Library and Information Science
- Master of Science in Library and Information Science, School Media Specialization
- Master of Science in Information Management
- Master of Science in Telecommunications and Network Management
- Executive Master of Science in Information Management
- Ph.D in Information Science and Technology
- Professional Doctorate in Information Management

The School of Information Studies also offers Certificates of Advanced Study in the following areas:

- Cultural Heritage Preservation
- Digital Libraries
- eGovernment Management and Leadership
- Information Security Management
- Information Systems and Telecommunications Management
- School Media

Message From The Dean

Elizabeth D. Liddy

The greatest challenge facing us in our increasingly digital world is the potential for the wealth of information that now exists to create a poverty of attention. We as a society need to better organize, represent, locate, and provide information efficiently and effectively, or risk being consumed by this overabundance of information. That's where the Syracuse University School of Information Studies (iSchool) makes one of its most significant contributions.

We connect people to the information they seek so they can make the best decisions for their organizations—whether their business is commerce, government, entertainment, communications, medicine, education, or human services. All of these organizations make decisions and take actions based on the information that is known. Our graduates ensure that they have the most accurate and appropriate information from which to base those decisions.

Our expertise in information management is attracting the attention of companies as well as governments and organizations around the globe that compete to recruit our graduates. For instance, financial services giant, JPMorgan Chase, initiated a collaboration with Syracuse University, partly because of the iSchool's No. 1 ranking in information systems and excellent reputation across all of its programs. Our faculty members are now working with JPMorgan Chase leadership to craft a world-class enterprise information technology curriculum as well as develop research projects that maximize our faculty members' expertise on issues important to JPMorgan Chase, including green data centers, global collaboration, and identity management and access control. We have similar ties with a range of corporations and industries.

We educate our library and information science students to take leadership positions in and to develop forward-looking policies and guidelines for libraries and other organizations. Our school media faculty members and graduates are changing policies to improve the quality of education and to motivate learning in students of all ages. Our faculty and alumni of the telecommunications and network management program are reshaping Internet governance and telecommunications policies around the globe, securing our networks and information systems, and expanding access to information communication and technology through innovative product design and implementation.

Our faculty members are masters of many academic fields and work across traditional disciplinary lines, and they teach our students to do the same. This unified diversity is the strength of the school as well as of the information field itself. The information profession is the field of the future, and we invite you to become part of this future. Let us provide you with the skills to achieve positive change at the intersection of management, technology, and people.

Join us!

Vision And Values

The School of Information Studies, established in 1896 and renamed as the first Information School in 1974, has a long tradition of leading innovation and change. Our ideals and values are the foundation for our success.

Our Vision

To expand human capabilities through information.

What matters is that we make a difference in everything we do, and that this difference is a positive one affecting individuals, organization, and ultimately society. We intend to add value to society through education and through the information, systems, and services we help to create. We pledge to do this ethically, competently, professionally, with respect for the individual, and with passion.

Our Values

- **Inquiry.** We are dedicated to exploration. Exploration and innovation are critically important to the information field and a vital part of our school. We share the university's vision of being a leading student-centered research university by dedication to being a student-centered research college. We promote this aim through discovery, development, application, integration, and active learning.
- **Individuality.** We are committed to the individual. High-performance organizations are composed of high-performance individuals. Our faculty, staff, students, and partners are risk takers who have a high tolerance for ambiguity. While we value our work together in a highly spirited team atmosphere, we value the individual, and respect individuality as such. Our organizational norms dictate that we are relentless in attacking problems, but supportive in valuing individual differences.
- **Diversity.** We are intellectually diverse. Complex problems require multidimensional and interdisciplinary analysis and solutions. The school fosters a multiplicity of "voices" addressing the important areas of teaching and research in the information field. The school seeks faculty from many related disciplines who respect a diversity of opinion and perspective, and thrive on the tension of discussion and debate.
- **Adaptability.** We are adaptive and able to evolve. Today's competitive, complex, and ever-changing environment requires innovation, flexibility, and rapid responses. Our initiatives and developmental processes are driven by a Do-Learn-Revise model. This model encourages entrepreneurship and risk-taking, celebrating success as a community achievement and embracing challenge as a learning opportunity.
- **Unity.** We are a faculty of one. The faculty sits as a whole, not as individuals or groups who represent one specific program in which they teach or ascribe affiliation. Students and faculty are challenged to benefit from the paradox of a single information field manifested in many professional expressions. Students and faculty learn from each other by shared intellectual experiences and by appropriate curriculum integration across the degree programs.
- **Continuity.** We are an enduring organization. With over a century of innovation and leadership behind us, the school makes an enduring contribution to our field. In building our school we concentrate on building an enduring organization that goes beyond the influence of any particular dean or member of the faculty.

Our Goal

To transform the information field through leadership in research, development, and education.

Our Points of Distinction

- whatever we do, we do through information and for people
- through information we transform individuals, organizations, and society
- we recognize that information technology and management processes are means and not ends

iSchool iCaucus

We are a founding member of the iCaucus, an educational organization consisting of deans from a growing number of leading information schools across the globe who have joined together to build awareness of, support for, and involvement with the information field.

Research Centers

Many of the faculty conduct their research individually and in small, flexible, interdisciplinary teams. For certain specialized areas and cross-unit collaborations, however, research centers and laboratories provide a venue that supports long-term commitment to a particular research area. The following research centers and laboratories are located in the school:

- **Center for Digital Literacy** CDL is an interdisciplinary, collaborative research and development center at Syracuse University dedicated to (1) understanding the impact of information, technology, and media literacies on children and adults (particularly those from underserved populations) in today's technology-intensive society and (2) studying the impact having or not having these literacies has on people, organizations, and society.
- **Center for Convergence and Emerging Network Technologies** CCENT The mission of CCENT is to understand the future of networking technologies, and to engage students, faculty and industry in the process of defining and shaping that future. CCENT currently has setup four

testbeds for studying emerging network technologies, including wireless networking, network security, unified communication systems, Internet protocol version 6.

- **Center for Information and Systems Assurance and Trust** Established in June 2009, CISAT promotes the exploration of new ideas in information and systems assurance and trust by bringing together faculty from seven schools and colleges at Syracuse University: the School of Information Studies, L.C. Smith College of Engineering and Computer Science, College of Law, Maxwell School of Citizenship and Public Affairs, Newhouse School of Public Communications, Whitman School of Management, and the College of Arts and Sciences, who share a common vision of improving society through the creation of trustworthy systems.
- **Center for Natural Language Processing** CNLP advances the development of human-like language understanding software capabilities for government, commercial, and consumer applications.
- **Center for Research on Collaboratories and Technology Enhanced Learning Communities** Cotelco is a social science research center organized to explore the socio-technical infrastructure required to support geographically distributed collaboration and knowledge work, particularly between developed and developing countries.
- **Information Institute of Syracuse** IIS is a long standing research center in the areas of education, technology and librarianship. Its projects bring together universities, government agencies, and private enterprises to promote easy access to high quality educational information to a diverse user population.
- **Library Game Lab of Syracuse** This research lab explores the intersection of games and libraries, and provides advice to librarians about the most appropriate gaming activities for different demographic groups and library goals and provide advice to the gaming industry about the needs of libraries and schools regarding gaming.
- **StudyResponse Center for Online Research** SCOR facilitates online research for behavioral, social, and organizational science researchers by distributing email participation requests to adult research participants. The project accumulates the characteristics and outcomes across research studies in order to explore the features of studies that encourage quality responding.

Our faculty members embrace innovation and entrepreneurial thinking in their research. Learn more about our entrepreneurial research and [Syracuse Student Start-Up Accelerator](#).

Hinds Hall--Academic Facilities

Hinds Hall, located on the Main Campus Quad, is the new home of the School of Information Studies. This four-story, 48,000 square-foot building showcases the latest in technology and design, including collaborative work rooms, state-of-the-art classrooms, research centers, and a student lounge with hospitality bar. Equipped with high-performance wireless networking, the new facility supports virtual collaborations with global partners and includes an enhanced computer laboratory infrastructure with four main labs:

- **The iLab**—Accommodating up to 40 students, this is the signature computer lab, featuring dual 19-inch display screens for increased productivity in a variety of computer applications.
- **iTELL** (Information Technology Experiential Learning Lab)—Students get hands-on experience working with the latest telecommunications equipment on their own servers and networking devices in the iTELL Data Center.
- **iSysLab** (Information Systems Lab)—Dedicated to the iSchool's more technical classes, this lab features a variety of hardware and software for students to use.
- **Innovation Studio**—This multi-purpose, highly reconfigurable 1,000-square-foot space is modeled after an artist's studio to promote collaboration, idea generation, and rapid prototype development for student and faculty teams. A video studio with editing bays is attached.

Check out our modern classrooms and collaboratories/meeting rooms. Or take a tech tour of Hinds Hall.

Hinds Hall marks the first time one building has been used solely to house the School of Information Studies. The groundbreaking occurred in Summer 2003, and the entire building was gutted and redesigned. Working closely with iSchool leadership and J.D. Taylor Construction of Syracuse, Ashley McGraw Architects transformed the 53-year-old building into a sleek, modern space that supports an open exchange of ideas and information. Natural wood and earthy red accents balance the exposed infrastructure, brushed aluminum window frames, and steel accessories, much like the iSchool's curriculum blends technological training with an understanding of human needs and behaviors.

The School of Information Studies' new home in Hinds Hall received a [2008 American Institute of Architects Central New York Chapter Citation Award](#) for the redesign and renovations conducted by Ashley McGraw Architects of Syracuse.

Undergraduate Education

Syracuse University School of Information Studies undergraduates are innovative, problem-solvers who enjoy interacting with people as well as playing with information technologies such as iPhones, iPads, Bluetooth, wireless networks, and computers as well as social media and Web 2.0 tools like Facebook, YouTube, Foursquare, blogs, and Twitter.

The iSchool offers the undergraduate B.S. in Information Management and Technology, which combines technology, business, and communications courses to educate 21st century professionals who can enter virtually any industry upon graduation.

Our flexible curriculum allows you to pursue a broad array of intellectual areas while providing a core knowledge of the technical, organizational, and communication skills necessary to succeed in our networked society. You can craft your education to fit your individual interests, and we offer dual degree programs with SU's Whitman School of Management and with S.I. Newhouse School of Public Communications.

Students often combine their iSchool education with another passion such as art and design, journalism, sports management, marketing, political science, or a foreign language. The small-school atmosphere provides individualized attention to each student while the larger Syracuse University community offers a rich array of additional resources.

The curriculum encourages entrepreneurship and out-of-the-box thinking while teaching students the organizational and communication skills necessary to thrive in the corporate and professional work environment.

Our students benefit from the school's newly renovated home, centrally located on the Quad in Hinds Hall. The sophisticated facility has high-speed wireless capabilities, collaborative learning centers with the latest technology and equipment, and informal spaces for students to mingle and study. Our internationally prominent faculty members interact with students in small classes, research projects, and supervised internships.

Students from other schools and colleges at SU often enroll in one of the iSchool's two minors:

- **Global Enterprise Technology**--Teaches students to develop and manage complex, large-scale operating systems used by major companies around the world.
- **Information Management and Technology**--Provides knowledge of information technology and related information and communication problems that makes students more marketable, no matter their career.

The Hub--Corporate Connections

In 2007 JPMorgan Chase and Syracuse University launched a unique collaboration to transform the way students aspiring to technology careers in large global organizations are educated and trained. This collaboration resulted in a new Global Enterprise Technology (GET) Curriculum, created the GET Immersion Experience Program, and launched several applied research projects addressing the kinds of challenges faced by global organizations.

Today, the collaboration, called the HUB, expanded to include participants from other companies, including IBM, GE, and Cisco, and other universities. The HUB universities and industries share knowledge to better prepare students to work in complex, technology environments and to develop creative and innovative solutions to global technology business problems.

Here are some ways in which such collaboration is benefitting iSchool students:

- **Immersion Experience and Internships**--The unique program provides an eight-month paid student immersion experience at a company that is integrated with the curriculum. These experiences often lead to a job offer from the hosting company. Student can also take advantage of numerous traditional summer or semester-long paid internships.
- **New JPMorgan Chase Technology Center @ SU**--The technology center, which seats 125 workers and occupies the first two floors of SU's Lyman Hall, serves as a regular worksite for JPMorgan Chase employees. It is also a place where students engage in internships, experiential learning, and joint research projects.
- **The Hub Speaker Series**--The HUB Speaker Series enhances the educational experience of SU students by bringing to campus prominent executives to share their experience and industry perspective. Students hear formal presentations from these speakers as well as network with them during informal luncheons and classroom visits.
- **Enriched GET Curriculum**--Students can enroll in more than two dozen new or redesigned courses that prepare them for careers in the global marketplace. These enhanced courses teach students in such areas as IT-enabled innovation, emerging technologies, and effective collaboration in a globally distributed environment. The iSchool also offers an 18-credit minor in global enterprise technology (GET).

The Student Start-Up Accelerator

SU iSchool students also have the opportunity to be part of the Student Start-Up Accelerator, a series of courses and resources that help SU students launch their own companies.

The goal is to leverage university and regional business resources for training a new generation of entrepreneurial students and seed a high-tech economy for Syracuse.

The project consists of three main pieces:

- Curriculum
 - Fall Semester: What's the Big Idea
 - Spring Semester: Idea2Startup
 - Summer course: Big Idea2Startup
- Student Sandbox at the Tech Garden
- Incubation Support
 - iVenture Upstate
 - Orange Tree Fund

Study Abroad Opportunities

SU iSchool students can study abroad for a semester, a summer, or a year through the nationally ranked Syracuse University Abroad while earning Syracuse University credit toward their degree. In addition, SU Abroad offers short-term programs associated with Main Campus courses. Students from the iSchool are among the approximately 2,000 students from all colleges within the University and from universities across the United States who study overseas through SU Abroad each year.

The University operates overseas centers in London; Strasbourg; Florence; Madrid, Spain; Santiago, Chile; Beijing; and Hong Kong. Language at all levels is offered at most SU Abroad centers, which feature a wide selection of courses in English, plus internships and on-site classes and study tours that take advantage of local and regional resources.

Courses taught in the local host language are offered for students with appropriate proficiency. Students may also take classes at affiliated local universities, for which there may be a language requirement.

In addition to its centers, SU Abroad offers other study abroad locations through the World Partners Program. Some of these include: Australia, Costa Rica, Ecuador, India, Ireland, Israel, Japan, Korea, and Russia. World Partner programs in Africa include options in Egypt, Ghana, Kenya, Namibia, and Tanzania.

Academic Offerings

Minor in Global Enterprise Technology

Contact Art Thomas, 245 Hinds Hall, 315-443-2911; apthomas@syr.edu, globaltech.syr.edu

The 18-credit interdisciplinary minor in Global Enterprise Technology will prepare students from any undergraduate major to understand how one develops and manages global enterprise information systems, such as those used by the banking, insurance, medical, and retail industries. The minor is flexible enough so that students from finance and technology majors can add to their current knowledge, and students from non-technical backgrounds, including the humanities, can develop foundational knowledge to pursue careers in industries with large-scale systems. Since these systems are central to most global companies, gaining an understanding of how enterprise systems are developed is useful to students entering the workforce across many careers - including finance, business strategy and technology focused careers.

ADMISSION

Applicants must have a grade point average of at least 3.0. Depending on available spaces, students with GPA's below 3.0 may be considered, however, there may be times when GPA requirements will be higher than 3.0 due to space restrictions.

Students considering the minor may delay enrolling until the third year of study, but are encouraged to meet with an Information Studies advisor during the first or second year.

The 18-credit minor program in Global Enterprise Technology can be taken with any SU major, with the approval of the student's home college.

Required Courses – 6 credits:

IST 439 Enterprise Technologies [3 credits,]
GET 234 Effective Collaboration in a Globally Distributed Enterprise [1.5 credits]
MIS 365/IST 365 Business Value of IT [1.5 credits]

Group A Electives - At least 6 credits from the following:

FIN 302/IST 302 Global Financial Systems Architecture [3 credits]
IST 434 Global Computing Challenges [3 credits]
IST 445 Managing Information System Projects [3 credits]

Group B Electives - At least 6 additional credits from Group A and Group B:

MIS 375/IST 375 Managing of IT Contracting [1.5 credits]
CIS 453/454 Technical Specification and Implementation [6 credits]
IST 233 Intro to Computer Networking - [3 credits]
GET 235 Leveraging Emerging Technologies [1.5 credits]
IST 359 Intro Database Mgmt Systems [3 credits]
IST 444 Information Reporting and Presentation [3 credits]
MIS 345 Development and Programming of Business Applications [3 credits]
GET 481 IT Enabled Innovation [3 credits]
GET 471 Internship- Maximum of 3 credits can be used toward minor

B.S. In Information Management And Technology

Contact: David Molta, 245 Hinds Hall, 315-443-2911, djmolta@syr.edu, ischool.syr.edu

The School of Information Studies offers a bachelor of science degree (B.S.) in information management and technology. This degree program provides a broad introduction to information management, services, and technologies, coupled with a firm foundation in the arts and sciences. Students learn the most effective ways to find information, assess people's needs, and design and manage systems that meet those needs.

Coursework in information management and technology teaches students how to locate and acquire information resources; select, manage, and use information technology; and help organizations use information resources to work more efficiently and more effectively. The overarching emphasis is on the usefulness of these information systems to people. Therefore, the program is balanced with management, communications, and liberal arts courses.

Admission

Students may be admitted into the B.S. in information management and technology program in the first year.

For students transferring into the B.S. degree program from another university, a grade point average of at least 3.0 is required.

Intra-University Transfer

If students are already enrolled in another program at Syracuse University and they would like to change their program of study to information management and technology, they may apply for an intra-University transfer. A cumulative grade point average of 3.0 and the completion of at least 15 credits in courses graded A-F at Syracuse University are required before transferring. Intra-University transfers normally take place at the beginning of the sophomore year. Depending upon available spaces, students with GPAs below 3.0 may be considered. However, there may be times when GPA requirements will be higher than 3.0 due to space restrictions. Students must also meet other criteria as determined by the faculty of the School of Information Studies, including a determination of space availability.

Dual Enrollment

A formal dual program of study is available in cooperation with the Martin J. Whitman School of Management and with the S.I. Newhouse School of Public Communications. A student may apply directly to the dual programs as an incoming first-year student or may add the dual, as a current student, after completion of the dual degree admission requirements.

Dually enrolled students must fulfill the degree requirements of both schools. Upon graduating, they receive a bachelor's degree (one diploma) conferred jointly by the two schools.

Information Studies/Management

Students who select a dual degree program of study with the Martin J. Whitman School of Management often seek a working knowledge of business with the technical training in information systems to set them apart from standard business school graduates. Job opportunities are plentiful and get more exciting as the advances in technology prepare businesses for competition in the global marketplace. Technology coupled with business is the ultimate preparation for the job market in the future. Students can combine the information management and technology major with any of the Whitman majors: accounting, entrepreneurship and emerging enterprises, finance, management, marketing management, retail management, and supply chain management.

The School of Information Studies is the home college. To complete the dual degree program with the Whitman School, students must complete a minimum of 132-136 credits for graduation.

Information Studies/Public Communications

Online news sites, e-newsletters, video downloads, and blogs are competing with traditional sources of information such as newspapers and magazines, other printed materials, television, and radio. New communications professionals understand the need to be savvy in emerging technologies, and many aspiring professionals enroll in the dual degree program in information management and technology and one of the majors offered through the S.I. Newhouse School of Public Communications. Students may combine the information management and technology degree major with any of the Newhouse majors, including advertising; broadcast journalism; graphic arts; magazine; newspaper; photography; public relations; and television, radio, and film. This 128-141 credit dual program of study prepares students to work in the information technology intense world of public communication. Newhouse is the home college.

Minors

The School of Information Studies also offers an 18-credit minor, which can be pursued along with a major program in any school or college within the University. The program is designed to give students knowledge of information technology and an understanding of information and communication problems.

The iSchool is the home to an 18-credit interdisciplinary minor in global enterprise technology (GET), developed in collaboration with professionals from JPMorgan Chase. The GET minor prepares students from any undergraduate major to develop and manage large-scale information systems such as those used by the banking, medical, insurance, and retail industries. The minor can be completed by students from any major with the approval of the student's home school or college.

B.S. in Information Management and Technology Overview

The B.S. in information management and technology teaches students to understand the value of information to society, organizations, and individual professionals. Students are prepared to analyze the information needs of individuals and organizations and to design and manage information systems that meet specific needs.

Information is now recognized by many organizations as their most valuable resource. Information professionals are employed by a variety of organizations, including governments, health care facilities, research institutes, legal services, large and small retail industries, banks and investment companies, sports and entertainment industries, consulting firms, colleges and universities, and international agencies.

The study of information focuses on the use and users of information as much as upon the systems that manipulate it. Students must have a broad education in the sciences, social sciences, and humanities, as well as in the areas of information management and information technologies.

All students take an information management and technology primary core of 24-25 credits, which includes basic courses in information technology, information-based organizations, and information management. Students select five additional information management and technology courses from the following concentrations:

- information security,
- project management,
- network management,
- web design and management, and
- database management.

Courses within the information management and technology curriculum prepare students for a wide array of positions that:

- perform organizational information needs analysis and information planning;
- formulate information and information technology policies and procedures;
- conduct research and development in information technologies appropriate to support an organization's mission;
- facilitate technology transfer between organizational units;
- monitor and evaluate information resources, including information sources, services, and technologies;
- coordinate information resources management across and outside an organization; and
- budget for and acquire information resources.

Students may further focus on an area of interest by incorporating one or more concentrations into their coursework, thus enhancing their resumes and marketability.

As information specialists are in high demand in the marketplace, careers are not limited to specific disciplines or industries. Our graduates are highly sought for such positions as information security managers, information management consultants, web design and development managers, database developers, project managers, process managers, database designers and managers, systems and design analysts, network administrators and managers, technology evaluators, user training and support technicians, and many other roles.

Some students may prefer to continue their education after receiving the bachelor's degree in order to pursue a professional career in such fields as business, education, government, law, librarianship, or medicine. The B.S. degree is an excellent preprofessional degree in that it combines a broad liberal arts education with computer and information technology skills; information seeking, use, and presentation skills; and a conceptual understanding of information's role in the modern society and economy.

Students graduating with a major or minor from the iSchool can petition to waive up to 6 credits toward one of the school's master's degree programs, thereby reducing the number of credits needed to complete the graduate degree.

Information management and technology majors often complement their programs with a minor. A sample of minors include the following:

- Accounting
- Biology (especially for pre-med)
- Chemistry (especially for pre-med)
- Economics
- Entrepreneurship and Emerging Enterprises
- Finance
- Management Studies
- Marketing
- Philosophy
- Policy Studies
- Public Communications
- Sport Management

Learning Outcomes

The educational objectives of the undergraduate program in information management and technology are to enable graduates to do the following:

- Maintain knowledge of the functional areas of information management and their application to a variety of organizational contexts.
- Use critical thinking skills and creativity to understand the uses of information for solving complex problems.
- Understand the uses of information technologies for solving human problems.
- Accomplish goals through effective leadership and teamwork.
- Understand the need for and use of information in relation to ethical, societal, regulatory, and technological issues.

- Clearly and effectively communicate ideas in writing and orally.
- Use relevant technologies appropriate to solve problems.
- Recognize the need for and an ability to engage in lifelong learning.

MAJOR REQUIREMENTS

To graduate, students must complete 120 credits and must maintain at least a 2.5 grade point average in the information studies core.

The 120 credits must be distributed as follows: 39-40 credits in information management and technology; 12 courses/36 credits in arts and sciences electives; 21-23 credits in skills electives; and 21-24 credits in free electives.

I. Information Management and Technology Major (39 to 40 credits)

The information management and technology curriculum includes a 24-25 credit required core and 15 additional credits in information management and technology courses. The 24-25 credit core consists of the following courses:

A. Primary Core (24 to 25 credits)

IST 101 First-Year Forum (1 credit) (first-year students only)
IST 195 Information Technologies

Technology Courses

IST 233 Introduction to Computer Networking
IST 346 Operating Systems Administration
IST 359 Introduction to Database Management Systems

Management Courses

IST 335 Introduction to Information-Based Organizations
IST 352 Information Analysis of Organizational Systems
IST 445 Managing Information Systems Projects
IST 466 Professional Issues in Information Management and Technology

B. Information Management and Technology Electives (15 credits)

As students define their professional interests, they may choose coursework to match their planned career paths.

Students must complete five additional IST courses in the concentrations below. Concentrations consist of two required courses and one course from those recommended.

CONCENTRATIONS

Information Security

Required

IST 323 Introduction to Information Security

Recommended

IST 400 Database Security
IST 425 Risk Management
IST 429 Organizational Information Security
IST 452 Advanced Computer Networking
IST 522 Applied Information Security

Project Management

Required

IST 325 Information Management Consultation

Recommended

IST 419 Applied Economics for Information Managers
IST 422 Acquiring, Procuring, and Financing Information Technology
IST 425 Risk Management
IST 456 Information Policies and Decision Making

Network and Systems Management

Required

IST 452 Advanced Networking

Recommended

IST 400 Open Source OS and Applications
IST 434 Global Computing Challenges
IST 439 Enterprise Technologies
IST 448 Broadband Wireless Networks
IST 453 Telecommunications Regulations

Web Design and Management

Required

IST 263 Design and Management of Internet Services

Recommended

IST 323 Introduction to Information Security
IST 449 Human Computer Interaction
IST 479 Electronic Commerce Technologies
IST 500 Photoshop and Flash
IST 500 Social Media
IST 553 Information Architecture of Internet Services

Database Management

Required

IST 469 Advanced Data Administration Concepts and Database Management

Recommended

IST 263 Design and Management of Internet Services
IST 400 Database Security
IST 432 Enterprise Systems
IST 434 Global Computing Challenges
IST 479 Electronic Commerce Technologies
IST 553 Information Architecture of Internet Services

C. General Information Management and Technology Electives (15 credits)

Students may take any of the courses listed above, any 500-level course, or any of the following:

IST 300 Selected Topics
IST 402 Digital Forensics
IST 422 Acquiring, Procuring, and Financing Information Technology
IST 426 Business Information Sources and Strategic Intelligence
IST 443 Critique of the Information Age
IST 444 Information Reporting and Presentation
IST 471 Internship in Information Management and Technology
IST 472 Cooperative Education in Information Management and Technology
IST 486 Social Media in the Enterprise
IST 490 Independent Study
IST 499 Honors Thesis/Project (Honors students only)

II. Skills Electives (21-23 credits)

Programming Skills (3 credits)

All students majoring in information management and technology are required to complete one computer programming course from the list below:

IST 256 Application Programming for Information Systems
CPS 196 Introduction to Computer Programming: C
CPS 335 JAVA Programming for the Internet, or
Any approved programming course

Communications Skills (12 credits)

WRT 105 Studio 1 or
WRT 109 Studio 1 (Honors)
WRT 205 Studio 2 or
WRT 209 Studio 2 (Honors), or another writing course with permission of advisor
WRT 303 Advanced Writing Studio: Research and Writing or
WRT 307 Advanced Writing Studio: Professional Writing
CRS 225 Public Advocacy or
CRS 325 Presentational Speaking or
IST 444 Information Reporting and Presentation

Quantitative or Language Skills (6-8 credits)

All information management and technology majors are required to attain minimum competence in either a foreign language or mathematics. Students may satisfy this requirement by completing either the quantitative skills or the language skills requirement of the Liberal Arts Core curriculum of the College of Arts and Sciences.

III. Arts and Sciences Divisional Electives (12 courses; minimum 36 credits)

More than one-third of the courses required for completing the information management and technology major are taken in the College of Arts and Sciences. The three divisions of the Arts and Sciences—Natural Sciences and Mathematics, Social Sciences, and Humanities—play a central role in the information management and technology curriculum. Students are required to take three courses in each of the three divisions. In addition, three courses in any of the divisions must be completed to fulfill this requirement.

IV. General Electives (21-24 credits)

Students can take any Syracuse University course open to them or concentrate on a minor, a dual degree, a combined degree, a cooperative education or

internship experience, or study abroad.

Minor In Information Management And Technology

Contact David Molta, 245 Hinds Hall, 315-443-2911; djmolta@syr.edu, ischool.syr.edu

The 18-credit minor program in information management and technology can be taken with any SU major, with the approval of the student's home college. The minor complements many majors because all organizations need people who understand information resources and information technology. Students who minor in information management and technology will increase their employability in a variety of careers.

- **Biology and chemistry majors** who want to work in a research lab will be more employable if they can use online information systems to retrieve information and manage data, such as genome sequences.
- **Retailing and business students** will be better prepared to work in business if they have skills in microcomputer applications and office systems technology.
- **Communications students** must be able to research information and present and package it effectively in video, audio, and print form. An information management and technology minor will provide those skills.
- **Economics, history, and political science** majors with courses in information systems and information policy will find many opportunities to work in federal, state, and local government.
- **Health and Human Services majors** who minor in information management and technology will be better prepared to work in the automated, information-intensive environment of the health care industry.
- **Design and art majors** will learn how information technology gives them new tools by which to enhance the world.

Required Courses (9 credits)

IST 195 Information Technologies

One course from each of the following areas:

Technology Courses

IST 233 Introduction to Computer Networking
IST 346 Operating Systems Administration
IST 359 Introduction to Database Management Systems

Management Courses

IST 335 Introduction to Information-Based Organizations
IST 352 Information Analysis of Organizational Systems
IST 445 Managing Information Systems Projects

Electives (9 credits)

Select three other information management and technology courses, preferably from one or more of the information management and technology concentrations.

Admission

Students considering the minor may delay enrolling until the third year of study. However, interested students are encouraged to begin planning with a School of Information Studies advisor during the first or second year. Students are required to fill out a brief application form. Applicants must have a grade point average of at least 3.0. Depending upon available spaces, students with GPAs below 3.0 may be considered. However, there may be times when GPA requirements will be higher than 3.0 due to space restrictions. Students must also meet other criteria as determined by the faculty of the School of Information Studies.

Courses

Global Enterprise Technology

GET 234 Effective Collaboration in a Globally Distributed Environment 1.5 Y
Key technologies that facilitate collaboration in a global enterprise. Best practices for virtual and cross-cultural enterprise. Best practices for virtual and cross-cultural collaboration. Strategies for synchronous and asynchronous collaboration. Challenges of team building in a distributed environment.

GET 235 Leveraging Emerging Technologies 1.5 Y
Explore emerging technologies on a global scale and in the context of services familiar to students. Infrastructure, data centers, programming languages, security, privacy, mobile applications, and payment systems.

GET 400 Selected Topics 1-3 IR
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

GET 471 Internship in Global Enterprise Technology 1-12 Y
Fully supervised internship available to Global Enterprise Technology minors. Students must complete contract with a site supervisor. R

GET 481 IT-Enabled Innovation and Change Within a Global Enterprise 3 Y
Supports internship in global enterprise: Analytical views of IT-enabled innovation and change management; Develop strategic approach to innovation and change; Understand organizational implications of innovation; Present innovative ideas to senior management.

Information Studies

IST 101 Freshman Forum 1 Y
The field of information management and technology. Diverse topics include new and emerging issues in the field. Relevant reading and writing with discussions prompted by current issues in the news.

IST 195 Information Technologies 3 S
State-of-the-art technologies in the field. Computer architectures, telecommunication networks, software design and application. Issues in information management and technology use.

IST 200 Selected Topics 1-3 SI
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

IST 233 Introduction to Computer Networking 3 S
Overview of technology, standards, implementation and management of digital computer networks. Wired and wireless local and wide area networks, Internet protocols, telecommunications, and network security. Includes weekly labs.

IST 256 Application Programming for Information Systems 3 S
Structured program design, development testing, implementation, and documentation of common information system applications using structured programming languages. Lectures and laboratory.

IST 263 Design and Management of Internet Services 3 Y
Principles for construction and publication of multimedia documents for the World Wide Web. Incorporate a user-based approach to planning, design, implementation, and management in distributed network environments.

IST 300 Selected Topics 1-3 SI
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

IST 302 Global Financial Systems Architecture 3 Y
Crosslisted with: FIN 302
Structures of real-world information systems in the money supply chain. Emphasis on large-scale banking organizations and their challenges in moving and processing millions of complex transactions worldwide for all types of customers.

IST 323 Introduction to Information Security 3 Y
Basic concepts and technologies of information security. Students who successfully complete this course will have a comprehensive overview of information security with some hands-on experience.

IST 325 Information Management Consultation 3 Y
Information technology trends and proven applications in information processing, telecommunications, office systems, and information processing industry products and services. Consultation skills; strategies for introducing technology transfer strategies and management of innovation and change.

IST 335 Introduction to Information-Based Organizations 3 S
Organizational behavior; groups and teams; leadership and management; human resources; organizational development; change management. Interactions between people and technology in work organizations; impacts of information technology on organizational effectiveness.

IST 346 Information Technology Management and Administration 3 S
Information technology management principles and practices. Administration of computers, operating systems, and applications. Tools and techniques for managing information technology operations. Includes hand-on labs.

IST 352 Information Analysis of Organizational Systems 3 S
Introduces information flow as basis of organizational work and role of information systems in managing work. Concept of systems decomposition to facilitate analysis. Skills required to decompose, model, and analyze information systems.

IST 359 Introduction to Database Management Systems 3 S
Data structure, file organization, and principles and concepts of data bases for information retrieval systems. Data analysis, design, models, management, evaluation, and implementation.

IST 365 Business Value of Information Technology 1.5 Y
Crosslisted with: MIS 365
Financial measures of IT value including TCO, ROI, and NPV; non-financial dimensions of business value such as strategic fit, IT investment risk; IT governance and IT models; measuring IT performance; IT change management.

IST 375 Management of Information Technology Contracting 1.5 Y
Crosslisted with: MIS 375
Budgeting and controlling IT costs; IT procurement including requirements specification, requests for proposals, evaluation criteria, and vendor selection; evaluating and managing vendor performance; developing and monitoring contracts.

IST 400 Selected Topics 1-3 IR
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

IST 402 Digital Forensics 3 Y
The fundamentals of the forensic process, evidence handling, and quality assurance as they apply to digital forensics. Emphasis on evidence handling and quality assurance as they apply to digital forensics.

IST 419 Applied Economics for Information Managers 3 Y
Economic principles relevant to management of information functions in organizational contexts. Core micro-economic concepts applied to the marketplace for information products and services. Financial tools used for managing information systems and networks.

IST 422 Acquiring, Procuring, and Financing Information Technology 3 SI
Preparing and negotiating information technology requests, cost-benefit analysis, and budget alternatives. Financing options for information processing and telecommunications projects, preparing requests for proposals or other procurement alternatives, negotiating with vendors, acquisition strategies.

IST 425 Enterprise Risk Management 3 Y
A multidisciplinary perspective of risk assessment, modeling, and management. Topics include: concepts of personal accountability versus governance and policy; how organizations define and measure risk and loss; and plan for contingencies.

IST 426 Business Information Sources and Strategic Intelligence 3 SI
Business and industry information sources. Techniques and processes of competitor analysis. Concentrates on the implications of the information provided through competitor analysis and on making recommendations for strategic action plans. Group projects and case studies.

IST 427 What's the Big Idea: Technology Innovation 3 Y
Double Numbered with: IST 627
Innovation in information technology. Learn how to develop, grow and vet ideas and build teams ready to create a product, serve or business. Additional work required of graduate students.

IST 429 Organizational Information Security 3 SI
Personnel/organizational skills for information security managers and officers: staffing, training, certification, incentives, and evaluation of information security personnel, non-security IT personnel, etc.; organizational development related to security awareness, threats, and responses; and ethics/codes of behavior in information security.

IST 432 Enterprise Systems 3 SI
Technical overview of Enterprise Systems and their impact on organizations. The concepts, fundamentals, issues and technologies in planning, implementing and operating an Enterprise System. Current trends, issues, technologies and extensions. Laboratory exercises.

IST 434 Global Computing Challenges 3 Y
Management and technical overview of large-scale computing challenges and their impact on global enterprise operations. The concepts, fundamentals, issues and technologies for managing high performance computing operations. Laboratory exercises.

IST 439 Enterprise Technologies 3 Y
Coverage of technical architecture and management issues that comprise enterprise computing environments. Focus on identifying and solving large complex problems and using large scale computing systems to deploy enterprise solutions. Hands-on development using enterprise technologies.

IST 442 Introduction to Electronic Commerce 3 SI
Organizational, technical, and societal forces driving the movement to digital commerce. Business to consumers and business to business interactions. Effects of e-commerce on industry value chains, markets, transaction costs, business alliances, and industrial competitiveness.
PREREQ: IST 322 OR IST 459 OR IST 463.

IST 443 Critique of the Information Age 3 Y
Effects of information technologies on society: social, cultural, and ethical implications. Multidisciplinary critique of changes in society.

IST 444 Information Reporting and Presentation 3 S
Information synthesis and the presentation of information. Organizing information for presentation, text, and graphics. Presentation skills, training and teaching methods.

IST 445 Managing Information Systems Projects 3 Y
Double Numbered with: IST 645
Project management as a professional discipline in information and communication technology. Introduction to roles, activities, methods, and tools. Critical review and application of principles. Additional work required of graduate students.

IST 448 Broadband Wireless Network Technologies 3 Y
Double Numbered with: IST 648
Technologies, standards, implementation, and management of advanced broadband wireless data systems. Includes examination of analog and digital wireless subsystems, antennas, access devices, and enterprise infrastructure components. Technical presentations, discussion of industry activities, and labs. Additional work required of graduate students.

IST 449 Human Computer Interaction 3 SI
Human performance characteristics, user computer interaction styles, user interface design alternatives, user interface evaluation methods.
PREREQ: IST 352.

IST 452 Advanced Computer Networking 3 Y
Technical, design, and management issues related to enterprise computer networking. In-depth investigations of TCP/IP Internet work protocols and popular network technologies including Ethernet and Wireless. Hands-on experience with protocol analysis, network management, and security.
PREREQ: IST 233.

IST 453 Telecommunications Regulations 3 Y
Regulation at the ITU, FCC, and public utility commissions. Function and operation of regulatory bodies. Political, economic, and legal theories of regulation. Sources of regulatory information. Regulatory history and current status. Current issues.
PREREQ: IST 233.

IST 456 Information Policies and Decision Making 3 Y
Current and emerging policy issues, policy formulation and conflict, roles and perspectives of major actors in the policy-making process. Privacy, freedom of information, intellectual property rights, information dissemination and access, security classification and restriction, computer crime.

IST 466 Prof Issues/Info Mgmt & Tech 3 S
Integration of management strategies, information uses, and information technologies as related to professional conduct, ethics, and career strategies. In-depth review and use of case studies. IST majors only.

IST 469 Advanced Data Administration Concepts and Database Management 3 SI
In-depth analysis of databases and database management system architecture, building complex database objects, database applications using forms and reports, data warehouses, establishing and implementing database security, and tuning databases for optimum performance.
PREREQ: IST 459.

IST 471 Internship in Information Management and Technology 1-6 S
Fully supervised internship available to IST majors and minors.
PREREQ: IST 371. R5, 12 credits maximum

IST 472 Cooperative Education in Information Management and Technology 1-12 S
Fully supervised, paid, cooperative education experience extending over two separate time periods. Prereq: IST majors and minors only. IST 371, GPA requirements, and students must complete a contract with site supervisor.
PREREQ: IST 371. R5, 12 credits maximum

IST 479 Electronic Commerce Technologies 3 Y
Overview of e-commerce technologies and applications, middleware, firewalls, encryption, payment systems, database integration, shopping cart applications, cookies, transaction analysis, and application service providers. Programming experience recommended.

IST 484 idea2Startup 3 Y
Double Numbered with: IST 684
Students establish an actionable plan for the launch of their own business. Focus on establishing a well conceived, achievable and actionable path to market. Additional work required of graduate students. First offered in Spring 2011

IST 486 Social Media in the Enterprise 3 Y
Introduction to the use and management of social media technology with an organization, including strategies for use in an enterprise organization, creation of original content and exploration of policy concerns.

IST 488 Social Web Technologies 3 Y
Double Numbered with: IST 688
This course will educate students in the concepts and mechanisms of social networking in technologies through hands-on system design, development, implementation and management of these systems. First offered in Spring 2011

IST 490 Independent Study 1-6 SI

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

IST 499 Honors Thesis 3-6 SI

IST 500 Selected Topics 1-3 SI

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

IST 502 New Directions in Academic Libraries 1-3 SI

Present state and future prospects of academic libraries in light of changes in the technology of scholarly communications and in the nature of higher education.

IST 503 Proposal Writing for the Information Field 1 SI

Researching and developing grant and contract proposals. Proposal evaluation process and key tools for finding grants and requests for proposals in the information sciences. Emphasis on preparing successful proposal packets.

IST 511 Introduction to the Library and Information Profession 3 Y

Key components of the field and its relationship to other fields and professions. General structure, issues and problems, research, and literature.

IST 522 Applied Information Security 3 SI

Applications of information security including hands-on experience. Students who successfully complete this course will understand how information security technology is applied to real systems. PREREQ: IST 555 OR IST 233 AND 346.

IST 523 Graphic Design for the Web 3 Y

Learn basic and advanced website design principles utilizing Adobe Photoshop and Flash, with emphasis on typography, color theory and layout. Understand and practice Flash Actionscript basics to create animation and dynamic web applications.

IST 553 Information Architecture for Internet Services 3 Y

Building and management of Internet information services, including information organization, information management, and information dissemination. Understanding of the use of Internet technologies within an organizational context. Practice with current technologies.

IST 556 Wireless Interactive Communications 3 Y

Applications, management, regulation, and technologies of wireless interactive media. Includes cellular radio, personal communications systems, wireless local loop and video platform services, wireless LANs and PBXs, and satellite-based systems.

IST 558 Technologies in Web Content Management 3 SI

Concepts and techniques in web content representation, organization, presentation, development, and management with the eXtensible Markup Language (XML), including basic XML syntax, vocabulary specification, data modeling, transformation, and Document Object Model (DOM).

IST 565 Data Mining 3 SI

Introduction to data mining techniques, familiarity with particular real-world applications, challenges involved in these applications, and future directions of the field. Optional hands-on experience with commercially available software packages.

IST 585 Knowledge Management 3 SI

Information systems behaviors that enable organizations to systematically identify, acquire, store, analyze, distribute, and reuse information and knowledge from all sources (internal and external, explicit and tacit) in order to enhance organizational productivity and competitiveness.

Faculty

Marilyn Arnone, Associate Research Professor
Ph.D., Syracuse University, 1992
Children's curiosity and learning, information literacy, creativity

Bahram Attaie, Senior Instructor
Computer Science, M.S.
Networking and database programming

Robert Benjamin, Professor
B.S., University of Pennsylvania, 1948
Strategic management of the IS function, evolution of electronic commerce, change management, societal impacts of information technology

Scott Bernard, Professor of Practice; Director of Executive Education
Ph.D., Virginia Tech., 2001
Enterprise architecture and capital planning, public and private sector chief information officers, federal policy development on information resources management

Susan Bonzi, Associate Professor; Director of Instructional Quality
Ph.D., University of Illinois at Urbana-Champaign, 1983
Image retrieval systems, bibliometrics, linguistic applications in information retrieval

Carlos E Caicedo Bastidas, Assistant Professor
Ph.D., University of Pittsburgh, 2009
Security, wireless networks, software development, telecommunications management

Derrick Cogburn, Associate Professor
Ph.D., Howard University, 1997
International information and communication technology policy, multistakeholder participation in global governance

Kevin Crowston, Professor
Ph.D., Massachusetts Institute of Technology, 1991
Organizational implications of information technologies, electronic markets, computer-supported cooperative work with electronic commerce, open source software development, virtual organizations

Michael D'Eredita, Assistant Professor
Ph.D., Syracuse University, 1998
Organizational learning and change, skill acquisition, high performance (virtual) teams

Jason Dedrick, Associate Professor
Management, Ph.D.
Economic development, industrial policy, technology diffusion, globalization of IT

David Dischiave, Professor of Practice
M.S., Regis University, 2003
Experiential learning in the classroom, process and data modeling techniques, object-oriented software engineering principles and database management systems

Susan Dischiave, Professor of Practice
M.S., Regis University, 2003
Experiential learning in the classroom, process and data modeling techniques, object-oriented software engineering principles and database management systems

Renee Franklin, Assistant Professor
Ph.D., Florida State University, 2006
School media specialist preparation, censorship in public and private schools, library history, increasing the level of participation of underrepresented ethnic groups in library and information science education

Paul Gandel, Professor
Ph.D., Syracuse, 1986
Management of information systems, library administration and services, software engineering, information policy, and visualization of information

Martha Garcia-Murillo, Associate Professor
Ph.D., University of Southern California, 1998
Policy, regulation, telecommunications, infrastructure, access

Robert Heckman, Senior Associate Dean
Ph.D., University of Pittsburgh, 1993
Emergent leadership in virtual teams, distance learning, teaching and learning strategies for information professionals

Jill Hurst-Wahl, Professor of Practice
M.L.S., University of Maryland, 1983
Library science, information technology, entrepreneurship, business intelligence, digitization

Michelle Kaarst-Brown, Associate Professor
Ph.D., York University, 1995
Strategic management of IT, assessment of strategic risks and opportunities of information and communication technologies, social implications of IT

Bruce Kingma, Professor, Associate Provost for Entrepreneurship and Innovation
Ph.D., University of Rochester, 1989
Economics of information, digital library economics, cost-benefit analysis

Barbara Kwasnik, Professor
Ph.D., Rutgers University, 1989
Classification theory, research methods for classification, genre, naming, knowledge organization

R. David Lankes, Associate Professor
Ph.D., Syracuse University, 1999
Digital libraries for education, digital reference, metadata, education information

Kenneth Lavender, Professor of Practice
Ph.D., University of California at Santa Barbara, 1972
Rare books, preservation, digital reference, preservation of information, and digital reference services

Elizabeth Liddy, Dean and Trustee Professor
Ph.D., Syracuse University, 1988
Natural Language Processing (NLP), cross-language retrieval, data mining, text mining, automatic metadata generation, health informatics

Ian MacInnes, Associate Dean for Academic Affairs, Associate Professor
Ph.D., University of Southern California, 1998
Information industry strategy, electronic commerce compatibility standards, international business, convergence, telecommunications

Nancy McCracken, Associate Research Professor
Ph.D., Syracuse University, 1979
Natural language processing, information extraction, question answering, knowledge representation, and machine learning

Lee McKnight, Associate Professor
Ph.D., Massachusetts Institute of Technology, 1989
Wireless grids, nomadicity, convergence of the Internet and telecommunications industries, Internet economics and policy, national and international technology policy

David Molta, Assistant Dean and Professor of Practice
M.P.A., University of North Texas, 1982
Mobile and wireless information systems, technology education, network systems design and management

Milton Mueller, Professor
Ph.D., University of Pennsylvania, 1989
Telecommunications industry liberalization, Internet governance, domain names and trademarks, broadband regulation, globalization and trade in telecom and audiovisual services, telephone numbering resources, international institutions governing communication and information

Scott Nicholson, Associate Professor
Ph.D., University of North Texas, 2000
Data warehousing, data mining, bibliomining process, web search tools, new methods for distance education

Michael Nilan, Associate Professor
Ph.D., University of Washington
Virtual communities, user-based system design, cognitive behavior, information seeking and use, knowledge management, intranets as collaborative virtual environments, functional linguistic structures for data organizations

Megan Oakleaf, Assistant Professor
Ph.D., University of North Carolina-Chapel Hill, 2006
Evolution and assessment of information services; theories, methods, and assessment of user education; information literacy frameworks and instruction; information services in academic libraries

Carsten Oesterlund, Associate Professor
Ph.D., Massachusetts Institute of Technology, 2002
Distributed and virtual work, organizational learning and knowledge, IT use and organizational boundaries, document and genre analysis, computer-supported collaborative work

Joon Park, Associate Professor
Ph.D., George Mason University, 1999
Information and systems security; security policies, models, mechanisms, evaluation, survivability, and applications

Jian Qin, Associate Professor
Ph.D., University of Illinois at Urbana-Champaign, 1996
Representation of learning objects, knowledge organization structure, organization of distributed information, knowledge discovery in bibliographic databases, scientific communication

Anthony Rotolo, Professor of Practice
M.S. in Information Management
Social media, e-government, online safety, privacy, augmented reality

Jeffrey Rubin, Professor of Practice
M.S., Syracuse University, 1997
Content/knowledge management systems, web-based management tools (including log analysis), user behavior on the Internet

Steven Sawyer, Associate Professor
D.B.A., Boston University, 1995
Social informatics, design and development of information systems, project management, role of information and communication technologies relative to organizational and social change

Ruth Small, Meredith Professor
Ph.D., Syracuse University, 1986
Motivation, information literacy, distance learning

Jeffrey Stanton, Associate Dean for Research and Doctoral Studies
Ph.D., University of Connecticut, 1997
Impacts of organizational behavior on information security, cognitive-affective models of motivation, evaluation and behavior, organizational and societal impacts of engineering, science and technology, research methods including psychometrics and statistics

Zixiang (Alex) Tan, Associate Professor
Ph.D., Rutgers University, 1996
Applications and implications of technology, telecommunications, governmental policy and regulations, wireless networking

Arthur Thomas, Professor of Practice
Ph.D., SUNY Buffalo, 1990
Performance improvement, project management, data networking engineering, instructional design, information systems management

Howard Turtle, Associate Research Professor
Ph.D., University of Massachusetts, Amherst, 1991
Design and implementation of retrieval systems, operating system support for large databases, text representation techniques, automatic classification, text and data mining, automated inference techniques

Murali Venkatesh, Associate Professor
Ph.D., Indiana University, 1991
Broadband community network planning, reflective practice, planning and design of technological systems, applications for communities

Carlos Villalba, Senior Instructor
Ph.D. (ABD), Syracuse University
IT security, open source applications, emerging technologies, distance education

Jun Wang, Assistant Research Professor
Ph.D., University of Illinois, Urbana-Champaign, 2006; Ph.D., Chinese Academy of Sciences, 1997
Socially intelligent computing, social tagging, visualization of statistical data

Ozgur Yilmazel, Assistant Research Professor
Ph.D., Syracuse University, 2006
Natural language processing, software development, information access, information retrieval, text categorization

Bei Yu, Assistant Professor
Ph.D., University of Illinois, Urbana-Champaign
Text mining, opinion mining, media mining, political opinion and ideology

Ping Zhang, Professor
Ph.D., University of Texas at Austin, 1995
Broad issues in human-computer interaction; individual responses to IT; affective, cognitive, and behavior aspects of human interaction with technology; user-centered information systems design and evaluation; business information visualization; technology-assisted education

College Of Law

Hannah R. Arterian, Dean
446 College of Law
law.syr.edu/



About The College Of Law

Message from Dean Arterian

Why study law? Each law student undertakes an exciting and rigorous journey. This journey expands analytical skills, knowledge in a professional discipline that informs all aspects of society-locally, nationally and globally. Law graduates are distinctly capable of engaging the issues most critical to any community. More than ever in our history every area of endeavor has some legal overlay-the law informs every issue. The law and the policies it drives interconnect with the environment, technology, media, foreign policy, architecture, the family, human rights and medicine. In fact, the list is as long as your imagination takes you. These limitless connections make a legal education so compelling and so important. The agenda you create, the path you take, the intellectual interests you bring with you and the ones you generate throughout your life, will be profoundly enhanced by an outstanding legal education. It would be difficult to find something the law doesn't influence. Legal education prepares you for meeting the challenge of an increasingly complex world. A law degree has value whether you choose to practice law or to join the foreign service; whether you start your own company or serve as counsel to a college or university; whether you work in the technology industry or in a hospital; whether you write a novel or edit a newspaper; serve as a public defender or work in the justice department. You name the career and law applies.

Syracuse University College of Law provides every opportunity you need to create your future. This website will give you a preview of what you can anticipate as a law student here. Read about our outstanding faculty, our wonderful facility and law library, the wide range of courses and the excellent programs, clinics and joint degree opportunities designed to provide you with the skills you need to make full use of your education. We start with a firm grounding in courses you need to build on, and then you choose your direction, with the advice and assistance of faculty and staff who really care. All of this on the campus of a great University with all it has to offer, at a law school with a long history and an eye on the future.

No introduction can give you more than a taste of our community and what we have to offer. I hope you will think seriously about pursuing your legal education here at Syracuse. I encourage you to contact us with questions and to keep an eye on our website because new things happen all the time and I hope they will interest you.

Dean and Professor of Law

Academic Rules & Regulations

<http://www.law.syr.edu/pdfs/0Academic%20Handbook.pdf>

Enrollment In Law Courses

On a space-available basis, matriculated Main Campus graduate students may enroll in a limited number of courses at the College of Law with special approval of the Senior Assistant Dean for Student Life. Matriculated Main Campus graduate students wishing to take law courses should follow this procedure:

1. Meet with an academic advisor in the Office of Student Life at the College of Law, Suite 444, prior to in-person registration and complete the necessary forms.
2. If space is available, get permission and signature from the law professor to enroll in the course.
3. The approved forms will be submitted to the College of Law Office of Student Administration and Registrar for processing and to receive a permission number.

Students should contact the dean of their home college to determine whether law courses can be applied toward their graduate degree.

The mere enrollment in a course offered by the College of Law does not constitute admission to the college. Students must be matriculated in the College of Law to receive law credit toward the J.D. degree. Consequently, law credits taken prior to admission to the College of Law will not be accepted toward the J.D. degree.

Joint Degree Programs

Joint degree study is an integral part of academic life in the College of Law to the extent that students who desire a greater degree of specialization may select from a number of interdisciplinary opportunities. Those interested in enrolling in a joint degree program must apply and be admitted to both the College of Law and the other appropriate school or college of the University. Admission to the College of Law does not guarantee one's acceptance into another graduate program. Most students apply for admission to their joint degree program during the first year of law school. However, applicants may be admitted to joint degree candidacy before beginning the first year of law study. In those instances, students postpone the start of the other graduate degree until the first year of law school is completed.

Joint degree programs are structured so that students can earn both degrees in substantially less time than required to earn each degree separately. Students in the joint degree programs must complete their first year of study in the College of Law. Formal joint degree programs designed to fit career objectives are available in public administration, business administration, accounting, information science and education as listed below.

Any student interested in a particular law-related discipline may seek admission as a candidate for a joint degree. Admission to joint degree candidacy is made upon petition and must be approved by the College of Law. Students seeking to enroll in a joint degree program are assigned a faculty advisor and prepare a comprehensive plan of proposed study with the advisor's assistance.

Further inquiries regarding joint degree programs may be directed to the Office of Student Life, Suite 444, Syracuse University College of Law, Syracuse NY 13244-1030; 315-443-1146.

For further information, please contact the College of Law Admissions Office, 315-443-1962, <http://law.syr.edu/admissions>

J.D./M.B.A. And J.D./M.S. In Accounting Or Finance

Business and industry must take public and private law into account in all decisions. The College of Law and the Martin J. Whitman School of Management have responded by creating joint degree programs in business administration and accounting. Students may obtain a J.D. and M.B.A. or M.S. in accounting or finance in four years instead of the five years necessary when both programs are pursued separately. These programs are particularly appropriate for students with career objectives in corporate law, tax law, or labor law. J.D./M.B.A. students generally complete program requirements in four academic years. Program structure for the J.D./M.S. in accounting or finance varies substantially depending on the student's accounting and management background and desire for certification. Because a joint degree program involves reciprocal application of electives, students are not awarded either degree until the requirements for both degrees are completed.

J.D./M.S. In Cultural Foundations Of Education

The joint degree program in law and education, with a concentration in disability studies, offers students the opportunity to earn a J.D. and an M.S. in Cultural Foundations of Education. Eligible joint degree students also may earn a certificate of advanced study (CAS) in disability studies, which is a New York State-approved concentration. Disability studies applies legal, social, cultural, historical, and philosophical perspectives to the study of disability in society. Students may obtain the J.D. and M.S. in three years instead of the four necessary to earn both degrees independently. Because a joint degree program involves reciprocal application of electives, students are not awarded either degree until the requirements for both degrees are completed.

J.D./M.S. In Forensic Science

For those entering the legal profession, an understanding of the scientific analysis of evidence can greatly contribute to their effectiveness both in and out of court. Both forensic science methods and their handling in court proceedings have undergone marked changes over recent years, and knowledge of both aspects will best prepare students for their future encounters with forensic evidence.

The Juris Doctor/Master's of Science in Forensic Science (General Forensic Track or Forensic Laboratory Track) are combined degrees which may be conferred by the College of Arts and Sciences and the College of Law. A student who is admitted to one of these programs has the opportunity to obtain both the J.D. degree and the M.S. Forensic Science degree in substantially less time than would be required were the two degrees to be obtained independently.

J.D./M.S. In Library And Information Science

The Juris Doctor/Master of Science in Library and Information Science is a combined degree which may be conferred by the School of Information Studies and the College of Law. Students admitted to this program have the opportunity to obtain both the Juris Doctor and the M.S. in Library and Information Science in substantially less time than would be required were the two degrees obtained independently. Because a joint degree program involves reciprocal application of electives, students are not awarded either degree until the requirements for both degrees are completed.

J.D./Master In Public Administration

Students may earn a joint J.D./Master of Public Administration through the College of Law and the Maxwell School of Citizenship and Public Affairs at Syracuse. The public administration program educates individuals to work in government agencies and in organizations that conduct substantial business with government agencies. Because a joint degree program involves reciprocal application of electives, students are not awarded either degree until the requirements for both degrees are completed. Students may obtain the J.D. and M.P.A. in three years instead of the four necessary to earn both degrees independently.

Law In London

Train With London's Leading Legal Practitioners

Syracuse University College of Law proudly offers one of the nation's longest-running Law in London programs, where students learn from London's leading legal practitioners. During an eight-week summer experience, students gain international exposure to clients, partner with professionals for personalized mentoring, and enjoy boundless cultural opportunities—in one of the world's most dynamic cities.

Who is eligible?

Any full-time or part-time American or Canadian law student who is in good standing at his or her current institution is encouraged to apply. The program is approved by the ABA and is offered as part of the fully accredited curriculum of Syracuse University College of Law.

Will this impact my career?

Rigorous coursework and hands-on learning experiences cultivate a student's ability to pursue a career in international law. Individuals who attend the Law in London program are supervised by American faculty who assist with housing, internships, and mentoring. Students engage in a variety of organized internship placements in criminal law and trial law, at financial and governmental institutions, and in corporate settings.

Click here to learn more about the Law in London summer program.

Apply today!

February 15 is the deadline to apply for the summer Law in London experience. For more information, contact Associate Dean Chris Day at ccd@law.syr.edu or Associate Professor Aviva Abramovsky at aabramov@law.syr.edu.

Law in London Application



Master Of Public Health

Contact: Thomas H. Dennison, Ph.D., Associate Director
426 Eggers Hall; 315-443-9060; thdennis@maxwell.syr.edu

www.upstate.edu/cnymph

The Master of Public Health (M.P.H) degree is a collaborative program, sponsored jointly by SUNY Upstate Medical University (UMU) and Syracuse University (SU). Participating colleges at Syracuse University include the Maxwell School of Citizenship and Public Affairs, the College of Human Ecology, L.C. Smith College of Engineering and Computer Science, and the College of Law.

The program is designed to prepare students in the basic knowledge areas in public health through a core curriculum of required courses; extend that knowledge through elective coursework and through practical skills honed in field experiences; and demonstrate an integration of that knowledge through a culminating experience. The basic knowledge areas include: biostatistics, epidemiology, environmental health, health policy and management and social and behavioral sciences. A minimum of 42 credits is required for the degree, consistent with the accreditation criteria for public health programs promulgated by the Council on Education for Public Health.

The M.P.H. student body consists of individuals with a variety of backgrounds and preparations, including students directly out of undergraduate school with a relevant baccalaureate degree as well as professionals with graduate degrees and significant work experience in public health administration or clinical care. Students will be prepared for career opportunities in public health administration, leadership roles in private agencies involved in public health delivery and advocacy, research, and clinical care broadened by an understanding of the health care delivery system and grounded in public health practice.

Admission

Students interested in the M.P.H. must complete an application online at:

http://www.upstate.edu/cnymph/academic/mph_degree/how_to_apply.php

The Martin J. Whitman School Of Management

Melvin T. Stith, Dean
721 University Avenue Suite 215
whitman.syr.edu



Welcome

Welcome to the Whitman School of Management, a top-ranked business school with a diverse faculty and strong focus on leadership building and community engagement. At the Whitman School, students develop a strong business sense across all aspects of management, providing them with the skills, opportunities, and motivation necessary to compete in a global environment.

The Whitman School is a state-of-the-art business school in both programming and facility, reflecting both Syracuse University's commitment and history of innovative business education and the Whitman School's role as a cutting-edge, experiential learning environment. The Whitman School continues to expand its technological resources with secure wireless broadband for students, dedicated HD TVs in computer labs, student loaner laptops, and an enhanced video archive. Students enrolled at Whitman get the best of both worlds, enjoying the intimate and interconnected community of the Whitman School with all the resources and opportunities of a world-class research university.

The Whitman School of Management continues to be ranked among the nation's top business programs. *U.S. News and World Report* ranked both Whitman's undergraduate and graduate programs among the best in the nation, and *Bloomberg BusinessWeek* ranked the undergraduate program in the top 50 in the nation. The Whitman part-time MBA program, the iMBA, was identified among the top AACSB-accredited online graduate programs by the U.S. News and by the Financial Times. Whitman's entrepreneurship program has been ranked nationwide by the United States Association for Small Business and Entrepreneurship; *Entrepreneur* magazine/The Princeton Review; *Fortune Small Business*; and *U.S. News & World Report*. Many of Whitman's specialty programs have been highly ranked by *Bloomberg BusinessWeek*, including accounting, strategy, operations, sustainability, business law, marketing management, and ethics.

Mission

The Whitman School of Management is dedicated to:

- Fostering a diverse, supportive learning community focused on developing entrepreneurial managers who will become leaders in an era of global competitiveness and technological advancements;
- Advancing the theory and practice of management by discovering and disseminating relevant knowledge and contributing perspectives on frontline business issues;
- Providing students and faculty select educational experiences that promote intellectual engagement, personal and professional growth, and lifelong scholarship.

Accreditation Information

The Whitman School has been accredited by the Association to Advance Collegiate Schools of Business (AACSB International) since 1920.

Facilities

The Whitman School of Management's 160,000-square-foot sustainable building opened in 2005, with a central focus on students and creating an environment that promotes a culture of collegiality and a high-tech, world-class learning experience. To provide that experience, the Whitman School creates an open community atmosphere with advanced resources and team-oriented learning spaces, including:

- 22 classrooms
- 200-seat auditorium
- 20 team meeting rooms each for graduate and undergraduate students
- three-story, 4000-square-foot Grand Hall
- undergraduate and graduate computer clusters
- 74 faculty offices
- a faculty research center
- an Investment Research Center
- a center for entrepreneurial start-ups
- a 100-seat cafe
- a special-events room with outdoor terrace

The Whitman School of Management's building is dedicated to sustainability, providing environmentally friendly resources and features for an enhanced "green" experience.

Research Centers & Institutes

The Whitman School building boasts many spaces for innovative and collaborative research that provide experiential learning and prepare students for careers across a broad range of business areas. Sophisticated software and integrated technology coupled with advanced workshops and seminars create an ideal learning atmosphere. Whitman's diverse research centers and institutes include:

- Africa Business Program
- The Ballentine Investment Institute
- The George E. Bennett Center for Tax Research
- The Robert H. Brethen Operations Management Institute
- The Michael J. Falcone Center for Entrepreneurship
- The H. H. Franklin Center for Supply Chain Management

- Goodman Leadership Center
- The Olivia and Walter Kiebach Center for International Business Studies
- The James D. Kuhn Real Estate Center
- The Harry E. Salzberg Memorial Program
- The Earl V. Snyder Innovation Management Center
- Sustainable Enterprise Partnership
- Transactional Records Access Clearinghouse (TRAC)

Undergraduate Program Overview

The Martin J. Whitman School of Management offers eight programs leading to the B.S. degree. They are in accounting, entrepreneurship and emerging enterprises, finance, general management studies, management, marketing management, retailing, and supply chain management. Each of these programs can be completed within four years. The school also offers dual programs with information studies and public communications.

Each student is assigned an advisor for the first two years of his or her program. Students select a major any time before the end of the second semester of the sophomore year and are then assigned a major advisor, who helps them choose specific courses in the major as well as management electives.

STUDY ABROAD

The Whitman School, in cooperation with Syracuse University Abroad (SU Abroad), offers students the opportunity to participate in a program of study abroad in London, England; Santiago, Chile; Madrid, Spain; Strasbourg, France; Florence, Italy; Hong Kong, China; or Beijing, China during the fall or spring semester. Management courses and internships are generally offered in a variety of areas. In addition, students may choose from a variety of courses in arts and sciences and public communications.

During the summer, students may participate in management internship programs in South Africa, Madrid, London, Dublin, or Singapore; take courses in international business in Shanghai; or participate in a travelling seminar that studies globalization in Italy, Switzerland, France, Germany, Holland, Belgium, and England.

SU Abroad also sponsors study opportunities in a variety of locations throughout the world, such as Ireland, Japan, Australia, East/Central Europe, Germany, Russia, and South Korea. Although no management courses are available in some of these programs, students in these programs can satisfy other degree requirements while developing sensitivity to cultural differences.

It is essential that students planning to study abroad contact the Office of Undergraduate Programs, 215 School of Management Building, during their freshman or sophomore year.

For further information about study abroad, contact SU Abroad, 106 Walnut Place.

DUAL PROGRAMS

The Whitman School, in cooperation with other schools and colleges within the University, offers dual programs that make it possible for students to pursue two programs of study concurrently. Students in these programs are assigned an advisor in each college.

Students enrolled in dual programs fulfill degree requirements in each school and receive one degree (one diploma) jointly conferred by both schools. Dual programs require more than 121 credits, normally required for graduation, but can often be completed within four years. The Whitman School offers dual programs with the School of Information Studies and the S.I. Newhouse School of Public Communications.

Further information about dual programs can be obtained from the Office of Undergraduate Programs, 215 School of Management Building.

INTRA-UNIVERSITY TRANSFER

Syracuse University students interested in an intra-University transfer into the Whitman School must meet the intra-University transfer requirements. To be considered eligible for transfer, students usually have a cumulative grade point average of at least 3.3 and have completed at least 24 credits at Syracuse University, including two of the following or their equivalents: MAT 183, MAT 221, MAT 284, and ECN 203. These students are admitted as space becomes available, beginning with students who have the highest grade point averages and with the lower averages admitted in order. Students interested in transferring are required to meet with a counselor in the Whitman School's Office of Undergraduate Programs for advising.

General Regulations

For academic rules and regulations that apply to all University students, see the Academic Rules and Regulations section of this catalog. This annual publication also contains special regulations that apply to all students matriculated in the Whitman School.

The students, instructional staff, and administrators of the Whitman School recognize that honesty, integrity, and respect for others are fundamental expectations in the academic and business communities. The Whitman School follows the Syracuse University Academic Integrity Policy and Procedures. Additionally, all students who take courses in the Whitman School are required to certify in writing that they have read, understand, and agree to comply with this policy.

Undergraduate Degree Requirements

The B.S. degree, in any of the 8 areas available, requires at least 121 credits, distributed as indicated below. In addition, all students must complete global diversity, community service, and internship requirements before graduating.

Group I Analytical And Quantitative Skills

MAT 183	Elements of Modern Mathematics*	3
MAT 284	Business Calculus* (*or approved calculus sequence)	3

MAS 261	Introductory Statistics for Management	3
MAS 362	Decision Tools for Management	3
MIS 325	Introduction to Information Systems for Managers	3
	Science electives (astronomy, biology, chemistry, geology, physics, or any physical science)	6 —
		21

Group II Communication Skills

WRT 105, WRT 205 - Writing Studio 1 and 2		6
WRT 307 (or WRT 301 or WRT 303)		3
CRS 325 / CAS 325 Presentational Speaking		3
		12

Group III Environmental Studies

LPP 255	Introduction to the Legal System	3
ECN 203	Economic Ideas and Issues	3
ECN 300+	300- or 400-level economics elective	3
	History, political science, public affairs, economics, or geography	6 —
		15

Group IV Behavioral Studies

Anthropology, psychology, or sociology		9
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Group V Arts And Humanities

Fine arts, English and textual studies, foreign language, literature, philosophy, linguistics, or religion		6
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Management Core

In addition to management coursework taken within other skills areas, students are required to complete the following coursework in the management core:

SOM 122	Perspectives of Business and Management (first year only)	0 / 3
ACC 151	Introduction to Financial Accounting	4
ACC 252	Introduction to Managerial Accounting	3
SHR 247	Introduction to Strategic Management	3
FIN 256	Corporation Finance	3
MAR 255	Principles of Marketing	3

SCM 265	Introduction to Supply Chain Management	3
SHR 355	Strategic Human Resource Management	3
SOM 354	Managing in a Global Setting	3
EEE 457	Strategic and Entrepreneurial Management	3
<i>Total</i>		<u>28 / 31</u>

Major Field Specialization

All students, except those majoring in CPA accounting, take 9 to 12 credits in the major area beyond core requirements. Students must contact an advisor in the chosen major field to discuss specific requirements. 9-12

Management Electives

A management elective is any upper-division course in the Whitman School that gives credit but is not used to fill requirements in other groups. A maximum of 3 credits from the student's major area may be used as management elective credit. 6-9

Free Electives

Students complete additional credits from any credit-bearing course with the following conditions: at least 6 credits must be non-management coursework; no more than 3 credits of physical education, health, or music ensemble may be used; and students may not take courses considered to have content that duplicates courses already taken. 9-12

Global Diversity

Whitman students must have some form of global experience. For many students, this is achieved through study abroad. Students may also fulfill the requirement with the completion of two courses from the Global Diversity Electives list (which may fulfill other course requirements for the degree).

Community Service

Students are required to apply their management skills and knowledge to community problems. This is realized through completing a course with a service learning component, an internship at a public or non-profit agency, or a Community Service Learning Agreement.

Internship

Students must have at least one experience, after they acquire junior standing, consisting of substantive and supervised work that complements their academic program. This is accomplished through completing a course that requires internship participation, an independent study for experience credit with a professor, or an Internship Learning Agreement.

Undergraduate Minors

MINORS AVAILABLE TO MANAGEMENT STUDENTS

Students in the Whitman School are encouraged to pursue a minor offered by other schools or colleges, and should seek assistance from their academic advisor in choosing a minor that will enhance their academic program. With careful and early planning, many minors can fit into the undergraduate curriculum without a need for extra coursework. While management students are allowed to pursue most minors offered outside the Whitman School, provided that they have the appropriate prerequisites, they most often choose a minor in economics, global enterprise technology, information management and technology, political science, psychology, public communication studies, or a foreign language.

MINORS IN MANAGEMENT

Minor Coordinator: Lindsay Rapp
215 Whimam School of Management
315-443-2361

The Whitman School offers several minors, allowing students to pursue either general management studies or a more specialized program that provides in-depth study in one area of management. A minor in management can help students learn about subjects that contribute to success in business, not-for-profit, and government organizations. Knowledge in management is seen as beneficial by many prospective employers.

The minors in Whitman are available to matriculated undergraduate students from all Syracuse University schools and colleges other than the Whitman School, provided that they have the permission of their home school or college and have a cumulative grade-point average (GPA) of at least 3.0.

There are two deadlines for submitting applications for management minors: **November 1** and **April 1** of each academic year. Due to course sequencing and enrollment limitations, students must have a minimum four semesters to complete the minor requirements. Any student wishing to apply for a management minor after the spring of the sophomore year must have one or more courses completed or in progress (please see an advisor in the Whitman Undergraduate Office for more information).

TO DECLARE A MINOR IN MANAGEMENT

1. Check with your home school or college office to make sure you have room in your program for the required courses. Also check that you have a cumulative GPA of at least 3.0.
2. Pick up a minor declaration form in SOM Suite 215 (keep in mind the April 1 and November 1 deadlines).
3. Bring the minor declaration form to SOM Suite 215 before the deadline. If you are approved, you will be notified via e-mail and asked to pick up the form.
4. Take the signed form to your home school or college office. They will approve the declaration and give you instructions about how to get the minor officially posted on your SU record.

TRANSFERRING COURSES INTO MINORS IN MANAGEMENT

Normally, a maximum of one course (3 credits) taken at another institution can be used toward the 18 credits of coursework required for the minor. In some minors, there may be no courses considered transferable from other institutions. Students wishing to transfer a course into the minor must receive approval in advance from the Whitman Undergraduate Office. The content of the various minors offered by the Whitman School is as follows:

Accounting Minor

ACC 151 Introduction to Accounting for Non-Management Students
ACC 252 Introduction to Managerial Accounting
FIN 301 Essentials of Finance
EEE 370 Introduction to Entrepreneurship
Two 300-level or higher Accounting electives for which student has prerequisites

Entrepreneurship And Emerging Enterprises Minor

ACC 201 Essentials of Accounting
FIN 301 Essentials of Finance
EEE 370 Introduction to Entrepreneurship
Three additional EEE courses, some of which have prerequisites

Finance Minor

ACC 151 Introduction to Accounting for Non-Management Students
ACC 252 Introduction to Managerial Accounting
FIN 301 Essentials of Finance
EEE 370 Introduction to Entrepreneurship
Two 300-level or higher FIN electives for which student has taken prerequisites.*
*MAS 261- MAS 362 or MAT 221- MAT 222 are required for many FIN electives.

General Management Studies Minor

ACC 201 Essentials of Accounting
FIN 301 Essentials of Finance
LPP 255 Introduction to the Legal System
SHR 355 Strategic Human Resource Management
MAR 301 Essentials of Marketing
EEE 370 Introduction to Entrepreneurship

International Business Minor

ACC 201 Essentials of Accounting
EEE 370 Introduction to Entrepreneurship
FIN 301 Essentials of Finance
SOM 354 Managing in a Global Setting
Two additional courses, some of which have prerequisites, approved as international business electives. This includes MAR 456, FIN 453, FIN 457, LPP 459, SCM 421, any course with an INB prefix, and any approved course taken at one of the SU Abroad centers. A maximum of 3 credits may be earned through an approved internship.

Marketing Minor

ACC 201 Essentials of Accounting
FIN 301 Essentials of Finance
EEE 370 Introduction to Entrepreneurship
MAR 301 Essentials of Marketing
Two additional MAR courses, some of which have prerequisites, or other courses approved as marketing electives

Real Estate Minor

ACC 201 Essentials of Accounting
FIN 301 Essentials of Finance
EEE 370 Introduction to Entrepreneurship
RES 431 Real Estate Principles
RES 442 Real Estate Development Process *or* RES 462 Real Estate Finance and Investment
One additional RES elective for which student has prerequisites

Retail Management Minor

ACC 201 Essentials of Accounting
FIN 301 Essentials of Finance
EEE 370 Introduction to Entrepreneurship
RMT 301 Retailing Fundamentals
RMT 307 Sales and Strategic Partnerships
One additional 3-credit RMT course

Strategic Management Minor

ACC 201 Essentials of Accounting
FIN 301 Essentials of Finance
LPP 255 Introduction to the Legal System
SHR 247 Introduction to Strategic Management
EEE 370 Introduction to Entrepreneurship
One 300- or 400-level SHR or LPP course for which the student has taken prerequisites, or SOM 354

Academic Offerings

Accounting

Contact: Office of Undergraduate Programs, 215 Whitman School of Management, 315-443-2361.

Faculty Susan Albring, Kofi Appiah Okyere, Joseph Comprix, Randal Elder, MaryAnn Fiedler, Mitchell Franklin, David Harris, Badr Ismail, Danny Lanier, Lihong Liang, Alex Thevaranjan, Ginger Wagner, William J. Walsh, Joyce Zadzilka

The major programs in accounting provide students with the academic training and experience needed to become professional accountants. Job opportunities include careers in public accounting, business and industry, not-for-profit organizations, and government. The professional program is designed for students who plan to enter public accounting or other professional accounting fields. The managerial program is appropriate for individuals who plan to enter other areas of accounting or to complement other programs of study.

MAJOR REQUIREMENTS

PROFESSIONAL PROGRAM

The professional program is designed to help students meet New York State educational requirements for CPA licensure. The CPA license is granted after passing the Uniform CPA examination and meeting professional experience requirements. After August 1, 2009, New York State will require 150 hours of education for CPA licensure. Most other states currently require 150 hours of education for CPA licensure. Students seeking CPA licensure and planning to sit for the Uniform CPA Examination should meet with an advisor to discuss the education requirements for the state in which they seek licensure.

The professional program requires the following courses (credit hours in parentheses):

Junior Year

ACC 356 Financial Accounting I (3)
ACC 357 Financial Accounting II (3)
ACC 363 Cost Analysis and Control (3)
ACC 385 Principles of Taxation (3)

Senior Year

ACC 476 Auditing Theory and Practice (3)
ACC 477 Advanced Financial Accounting (3)
LPP 457 The Law of Commercial Transactions (3)
Finance elective (3)

Managerial Program

The managerial program requires the courses listed below. All managerial accounting majors are required to take ACC 356. Students then choose either ACC 357 or ACC 363, depending upon whether their primary interest is financial or management accounting. Remaining accounting and management electives are chosen based on career objectives in consultation with a major advisor.

The managerial program requires the following courses (credit hours in parentheses):

ACC 356 Financial Accounting I (3)
ACC 357 Financial Accounting II or ACC 363 Cost Analysis and Control (3)
Accounting electives (3-6)
Management electives (6-9)

Accounting Minor

ACC 151 Introduction to Accounting for Non-Management Students
ACC 252 Introduction to Managerial Accounting
FIN 301 Essentials of Finance
EEE 370 Introduction to Entrepreneurship
Two 300-level or higher Accounting electives for which student has prerequisites

For information on declaring a minor in Whitman, [click here](#).

Entrepreneurship And Emerging Enterprises Minor

Entrepreneurship And Emerging Enterprises Minor

ACC 201 Essentials of Accounting
FIN 301 Essentials of Finance
EEE 370 Introduction to Entrepreneurship
Three additional EEE courses, some of which have prerequisites

For information on declaring a minor in Whitman, [click here](#).

Entrepreneurship And Emerging Enterprises

Contact: Office of Undergraduate Programs, 215 Whitman School of Management, 315-443-2361.

Faculty Larry Bennett, George R. Burman, Randal Elder, J. Michael Haynie, G. Thomas Lumpkin, Alex McKelvie, Minet Schindehutte, Marcene S. Sonneborn, Clint B. Tankersley, Neil Tarallo, William J. Walsh, Craig Watters, Johan Wiklund

The major theme of the Martin J. Whitman School of Management is entrepreneurial management. Entrepreneurial management is defined as the ability to envision and create new business ventures whether in a startup situation or within a mature organization; the ability to identify new opportunities; and the ability to grow and renew existing businesses (including nonprofit organizations) in a healthy, productive manner. Entrepreneurs and entrepreneurial managers must deal with numerous challenges and opportunities including managing proficiently in rapidly growing global markets. These exciting challenges require new ways of thinking, creating, and managing. They also require personal courage and risk-taking.

The Entrepreneurship and Emerging Enterprises Program (EEE) is designed to link educational excellence and entrepreneurial ingenuity. Topics covered in the curriculum include the entrepreneurial mind, opportunity identification and verification, financing, venture planning, managing family and closely held enterprises, venture capital, startup challenges, legal issues facing entrepreneurs, creating an entrepreneurial culture, and building highly proficient entrepreneurial teams. Students frequently benefit from the expertise of local and national leaders in the field.

Graduates of the EEE program are particularly well-suited for the growing opportunities found in both small and large organizations requiring entrepreneurial skills. A primary educational mission of the EEE program is to help students recognize and capitalize on their own entrepreneurial potential.

MAJOR REQUIREMENTS

Students majoring in entrepreneurship and emerging enterprises must take the following courses (credits in parentheses):

Sophomore or Junior Year

EEE 370 Introduction to Entrepreneurship and Emerging Enterprises (3)

Junior and Senior Year

Major electives (9)

Management electives (6)

Major electives are chosen from the following:

EEE 375 Entrepreneurial and Family Business Management (3)

EEE 378 Imagination, Entrepreneurship, and Creative Problem Solving (3)

EEE 382 Entrepreneurial Marketing (3)

EEE 400 Selected Topics in Entrepreneurship (3)

EEE 420 Corporate Entrepreneurship (3)

EEE 439 Entrepreneurship and Digital Commerce (3)

EEE 442 Emerging Enterprise Law (3)

EEE 443 Emerging Enterprise Consulting (3)

EEE 444 Dilemmas and Debates in Entrepreneurship (3)

EEE 451 Finance for Emerging Enterprises (3)

MAR 444 New Product Management (3)

Note: Students are eligible to apply for D'Aniello Entrepreneurial Internships (EEE 470), which may be taken for up to 3 credits.

Note: A major in Entrepreneurship and Emerging Enterprises requires 12 credits of EEE courses and 6 credits of management electives. The senior capstone course, EEE 457, does not count as part of the EEE major.

Finance

Contact: Office of Undergraduate Programs, 215 Whitman School of Management, 315-443-2361.

Faculty Amber Anand, Tom Barkley, Anna Chernobai, Fernando Diz, Maurice Harris, Peter E. Koveos, Milena Petrova, Sandra Phillips, Ravi Shukla, Pamela Trendell, A. Joseph Warburton, Boyce Watkins, David Weinbaum, Yildiray Yildirim, Pierre Yourougou

The study and understanding of finance is an integral component of decision-making in all areas and levels of management. Finance is a global, dynamic, and exciting discipline. It offers a unique blend of theory and practical applications. To prepare themselves for the study of finance, students should pay special attention to economics, accounting, and quantitative methods. The competitive nature of the field also necessitates a deep commitment and the appropriate work ethic. Since finance is a forward-looking discipline, those wishing to pursue a finance career should be willing to function in a world full of challenges and uncertainty. Whether it entails working on Wall Street or for a multinational company in Shanghai, the profession offers opportunities that can be both intellectually and professionally rewarding.

Offerings include courses in financial management, investments, the security market, international finance, distress investing, portfolio management, financial engineering, and financial institutions.

MAJOR REQUIREMENTS

In addition to the FIN 256 core requirement, students majoring in finance must take the following courses (credit hours in parentheses):

Junior and Senior Year

FIN 455 (3)

FIN electives (9)

Management Electives (6)

Finance electives may be chosen from the following:

FIN 302 Global Financial Systems Architecture (3)

FIN 355 Money and Banking (3)

FIN 378 Financial Planning (3)

FIN 400 Selected Topics (3)

FIN 453 New and Emerging Markets (3)

FIN 456 Investments (3)

FIN 457 International Financial Management (3)

FIN 458 Financial Institutions and Portfolio Management (3)

FIN 459 Introduction to Derivatives (3)

FIN 465 The Securities Market (3)

FIN 466 Value/Distress Investing (3)

FIN 468 Seminar in Finance (3)

FIN 471 Financial Institutions and Markets (3)

RES 443 Real Estate Capital Markets (3) *or* RES 462 Real Estate Finance and Investment (3)

EEE 451 Finance for Emerging Enterprises (3)

Finance Minor

Finance Minor

ACC 151 Introduction to Accounting for Non-Management Students

ACC 252 Introduction to Managerial Accounting

FIN 301 Essentials of Finance

EEE 370 Introduction to Entrepreneurship

Two 300-level or higher FIN electives for which student has taken prerequisites.*

*MAS 261-362 or MAT 221-222 are required for many FIN electives.

For information on declaring a minor in Whitman, [click here](#).

General Management Studies

Contact: Office of Undergraduate Programs, 215 Whitman School of Management, 315-443-2361.

Faculty: See “Faculty, Martin J. Whitman School of Management.”

The program in general management studies is offered for students whose career goals require a broad knowledge of the functional areas of management rather than a specialization in a specific area. The program is designed primarily for students planning to enter a small business, where a specialization, such as in accounting or marketing, is not as appropriate an educational background as is extensive upper-division coursework in three or four functional areas.

MAJOR REQUIREMENTS

Student works with an advisor to construct an 18-credit program in upper-division management coursework beyond the core requirements.

International Business Minor

I

ACC 201 Essentials of Accounting

EEE 370 Introduction to Entrepreneurship

FIN 301 Essentials of Finance

SOM 354 Managing in a Global Setting

Two additional courses, some of which have prerequisites, approved as international business electives. This includes MAR 456, FIN 453, FIN 457, LPP 459, SCM 421, any course with an INB prefix, and any approved course taken at one of the SU Abroad centers. A maximum of 3 credits may be earned through an approved internship.

For information on declaring a Whitman minor, [click here](#).

Management

Contact: Office of Undergraduate Programs, 215 Whitman School of Management, 315-443-2361.

Faculty: Natarajan Balasubramanian, Pamela Brandes, Kristin Byron, Elletta S. Callahan, Donald Cardarelli, Patrick J. Cihon, Ravi Dharwadkar, Yitzah Fried, Dennis J. Gillen, Sandra N. Hurd, Lisa Knych, Catherine Maritan, Kira Reed

The major in management prepares students for professional positions that involve both macro and micro organizational processes and systems in

corporations and their environments. Many Whitman students desire to join management training programs at multi-national corporations or the professional consulting firms that serve these global corporations; and others will go on to law school or another professional school. The major in management will give students the content and the context to develop the skills and perspectives to become managers and leaders in their chosen organizations and professions. Students are often attracted to the major because of its focus on the specific theory and practice of managing people and organizations.

The management major serves as a logical complement to other technical majors at Whitman and across campus. The knowledge and practices developed in the required courses allow graduates to analyze and use all the organizational processes and resources necessary to manage their positions and other employees. The diverse but focused interests of the department faculty provide the multiple foundations needed to develop the integrated sets of skills and perspectives to manage in today's corporations and their complex environments.

MAJOR REQUIREMENTS

Junior Year

SHR 346 Organization Behavior (3)
Management elective(s) (0-6)

Senior Year

SHR 447 Advanced Topics in Strategic Management (3)
SHR 462 Leadership and Organization Change (3)
LPP 467 Management and Ethics (3)
Management elective(s) (0-6)

Management Studies Minor

General Management Studies Minor

ACC 201 Essentials of Accounting
FIN 301 Essentials of Finance
LPP 255 Introduction to the Legal System
SHR 355 Strategic Human Resource Management
MAR 301 Essentials of Marketing
EEE 370 Introduction to Entrepreneurship

For information on declaring a Whitman minor, [click here](#).

Marketing Minor

Marketing Minor

ACC 201 Essentials of Accounting
FIN 301 Essentials of Finance
EEE 370 Introduction to Entrepreneurship
MAR 301 Essentials of Marketing
Two additional MAR courses, some of which have prerequisites, or other courses approved as marketing electives

For information on declaring a minor in Whitman, [click here](#).

Marketing Management

Contact: Office of Undergraduate Programs, 215 Whitman School of Management, 315-443-2361.

Faculty: Amiya Basu, Linda M. Cushman, Scott Fay, Dinesh Gauri, E. Scott Lathrop, Eunkyoo Lee, Tridib Mazumdar, Amanda G. Nicholson, S.P. Raj, Breaglin Riley, Susan Smith, Clint B. Tankersley, Frances Gaither Tucker, Raymond M. Wimer

The marketing management program in the Whitman School is designed for students to encounter all the basic challenges in the industry: how a company decides what to sell, the customers and market to target, and the best means of reaching them. In many courses, students work in project teams—just as professionals do—to create strategies for product development, pricing, promotion, and distribution. Students learn to respond to the demands of competitors, the government, and larger social issues.

Marketing graduates are prepared for broad and promising career options, including advertising and promotion management, business-to-business marketing, consulting, marketing management, marketing research, new product development, product and brand management, retailing and wholesaling, and sales management.

MAJOR REQUIREMENTS

In addition to the MAR 255 core requirement, students majoring in marketing must take the following courses (credit hours in parentheses):

Junior and Senior Year

MAR 356 Marketing Research (3)
Major electives (9)
Management electives (6)

Note: All marketing management majors are required to take MAR 356. Other major courses depend on career objectives and should be selected with the assistance of a major advisor. Management electives in the major area of specialization are identified for each marketing management student in

consultation with a departmental advisor.

Marketing major electives may be chosen from the following:

MAR 307 Sales and Strategic Partnerships (3)
MAR 357 Consumer Behavior (3)
MAR 378 Industrial Marketing (3)
MAR 400 Selected Topics: Services Marketing (3)
MAR 401 Electronic Retailing and Marketing (3)
MAR 444 New Product Management (3)
MAR 445 Brand Management (3)
MAR 455 Marketing Communications* (3)
MAR 456 Global Marketing Strategy (3)
SCM 401 Supply Chain and Logistics Management (3)
SCM 421 Fundamentals of Sourcing (3)

* Students who have taken ADV 206 should not take MAR 455.

Real Estate

Contact: Office of Undergraduate Programs, 215 Whitman School of Management, 315-443-2361.

Faculty Milena Petrova, Sandra Phillips, Yildiray Yildirim

The real estate major focuses on the management perspective of real estate and real life experiences. The major provides students with the skill set and knowledge required to excel in the increasingly competitive landscape of real estate industry. An understanding of real estate fundamentals, and the capacity to maintain this knowledge base in a changing commercial environment, is an emphasis of the program, as is the ability to critically examine real estate financial information from diverse and conflicting sources. Students graduate from the real estate program with an understanding of the economic and environmental impact of real estate and seek positions in the expanding real estate job market throughout the world.

MAJOR REQUIREMENTS

Students majoring in real estate must take the following courses (credit hours in parentheses):

Junior and Senior Year

RES 431 Real Estate Principles (3)
RES 462 Real Estate Finance and Investment (3) or
RES 442 Real Estate Development Process (3)
RES electives (6)
Management Electives (6)

Real Estate electives may be chosen from the following:

RES 400 Special Topics in Real Estate (3)
RES 442 Real Estate Development Process (3)
RES 443 Real Estate Capital Markets (3)
RES 462 Real Estate Finance and Investment (3)

Real Estate Minor

ACC 201 Essentials of Accounting
FIN 301 Essentials of Finance
EEE 370 Introduction to Entrepreneurship
RES 431 Real Estate Principles
RES 442 Sales and Strategic Partnerships or RES 462 Real Estate Finance and Investment
One additional RES elective for which student has prerequisites

For information on declaring a minor in Whitman, [click here](#).

Retail Management

Contact: Office of Undergraduate Programs, 215 Whitman School of Management, 315-443-2361.

Faculty Linda M. Cushman, Amanda G. Nicholson, Raymond M. Wimer

Today's global marketplace demands skilled managers and leaders. The retail management program in the Whitman School prepares students for careers as buyers, store managers, apparel product developers, and sales and marketing representatives. The retail management faculty is committed to becoming an internationally recognized leader in providing the marketplace with well-educated, highly effective executives, advocates, and entrepreneurs. This major offers a student-centered approach to learning in partnership with national and international corporations and organizations. Through experienced faculty and visiting industry professionals, the program provides the basis of theoretical and practical knowledge that students need to succeed in the competitive and ever-changing environment.

Students in our programs participate in a wide variety of coursework and activities that prepare them for success in the field. Among the many opportunities are the college's Martin and Phyllis Berman Lecture Series, which brings prominent CEOs and entrepreneurs to campus to meet and address the student body, and a variety of supervised field trips that enable students to explore the current business environment. Students are encouraged to spend a semester abroad in one of our many Syracuse University centers, which also offer appropriate coursework for the discipline.

MAJOR REQUIREMENTS

All retail management majors are required to take RMT 301, RMT 307, RMT 333*, and RMT 475*. Two other major courses, and management electives, depend on career objectives and should be selected with the assistance of a major advisor.

* Students must complete RMT 333 and RMT 475 for the major. These courses must be used as management electives or free electives as advised.

Sophomore Year

RMT 301 Retailing Fundamentals (3)

Junior and Senior Year

RMT 333 Professional Practice *junior year* (1)

RMT 307 Sales and Strategic Partnerships (3)

RMT 407 Retail Buying and Planning (3)

RMT 475 Supervised Internship *senior year* (2)

Major elective (3)

Management elective (3)

Major elective may be chosen from the following:

RMT 314 Product Development for Retail (3)

RMT 357 Visual Merchandising and Store Planning (3)

RMT 457 Electronic Retailing and Marketing (3)

Retail Management Minor

ACC 201 Essentials of Accounting

FIN 301 Essentials of Finance

EEE 370 Introduction to Entrepreneurship

RMT 301 Retailing Fundamentals

RMT 307 Sales and Strategic Partnerships

One additional 3-credit RMT course

For information on declaring a minor in Whitman, [click here](#).

Strategic Management Minor

ACC 201 Essentials of Accounting

FIN 301 Essentials of Finance

LPP 255 Introduction to the Legal System

SHR 247 Introduction to Strategic Management

EEE 370 Introduction to Entrepreneurship

One 300- or 400-level SHR or LPP course for which the student has taken prerequisites, or SOM 354

For information on declaring a minor in Whitman, [click here](#).

Supply Chain Management

Contact: Office of Undergraduate Programs, 215 Whitman School of Management, 315-443-2361.

Faculty: Frederick Easton, Burak Kazaz, Gary LaPoint, Julie Niederhoff, Patrick Penfield, Frances Gaither Tucker, Scott Webster

A new kind of enterprise is emerging—the supply chain. A supply chain is a pipeline of information and materials, frequently global in scope. It includes not only the organization but also the suppliers, buyers, and others with whom it interacts.

Supply chain management requires a distinctive view of business: procurement, manufacturing, and distribution must be viewed and controlled as a seamless flow. Good supply chain managers eliminate delays and reduce the amount of resources tied up all along the chain. To perform effectively, a company must learn to function as a single organism, and people at every level must look beyond the old rules.

An understanding of supply chain management is an asset to any manager, and there is a strong demand for specialists who can comprehend and manage the entire chain. Building on long-established strengths, the undergraduate major offers a solid grounding in this fast-evolving specialty.

Students have the opportunity to take APICS certification exams. Furthermore, by enrolling in a set group of courses, students will be eligible for the AST&L blanket waiver for certification.

MAJOR REQUIREMENTS

In addition to the SCM 265 core requirement, students majoring in supply chain management majors take SCM 401 and SCM 402. Students take two other major electives. The major courses depend on career objectives and should be selected with the assistance of a major advisor. Two management electives are also chosen in consultation with a departmental advisor. (Credit hours in parentheses.)

Junior Year

SCM 401 Supply Chain and Logistics Management (3)

Major electives (0-6)

Management electives (0-6)

Senior Year

SCM 402 Supply Chain Management Systems (3)

Major electives (0-6)

Management electives (0-6)

Two major electives may be chosen from the following:

SCM 400 Special Topics in Supply Chain Management (3)

SCM 403 Introduction to Management Science (3)

SCM 421 Fundamentals of Sourcing (3)

SCM 431 Transportation and Distribution Center Management (3)

SCM 456 Introduction to Project Management (3)

SCM 459 Law for Global Business (3)

MAR 356 Marketing Research (3)

MAR 456 Global Marketing Strategy (3)

MIS 435 Principles of Database Management (3)

Courses

Accounting

ACC 151 **Introduction to Financial Accounting** 4 S

Financial accounting concepts that aid entrepreneurs, managers, investors, and creditors in planning, operating, and analyzing a business. Emphasis is on interpretation of financial statements.

ACC 201 **Essentials of Accounting** 3 S

Introduction for non-Whitman students to financial and managerial accounting and reporting concepts used by entrepreneurs and managers in planning and decision making.

ACC 252 **Intro to Managerial Acc** 3 S

Introduction to the role of accounting information systems in measuring performance, influencing employee behavior, and facilitating planning decisions such as what products and services to offer, in which markets, and at what prices. Sophomore standing.

PREREQ: ACC 151.

ACC 356 **Financial Accounting I** 3 S

Double Numbered with: ACC 601

Introduction to accounting - its postulates and principles. Topics included: recording process, income determination, asset valuation, equities, cost accumulation and control, financial statements, and uses of accounting information. Extra work required of graduate students.

PREREQ: ACC 252.

ACC 357 **Financial Accounting II** 3 S

Double Numbered with: ACC 602

Accounting concepts and standards. Problems of measurement and valuation of assets and equities and determination of income. Analysis of accounting principles related to general purpose reporting. Extra work required of graduate students.

PREREQ: ACC 356.

ACC 363 **Cost Analysis & Control** 3 S

Double Numbered with: ACC 621

In-depth examination of costing products and services, and using cost information in planning and control decisions. Pricing, budgeting, standards, strategic cost systems, just-in-time/backflushing costing, and activity-based costing. Additional work required of graduate students. Junior standing or graduate status.

PREREQ: ACC 252.

ACC 378 **Financial Planning** 3 Y

Crosslisted with: FIN 378

Introduction to financial planning concepts, including analysis of personal financial statements, tax planning, credit management, retirement planning, estate planning, and insurance planning.

PREREQ: FIN 256 OR FIN 301.

ACC 385 **Principles of Taxation** 3 Y

Double Numbered with: ACC 685

Tax planning and taxation of business transactions, such as basis, gains, losses, nontaxable exchanges, depreciation, amortization, other business deductions, and tax credits. Research and communication skills. Extra work required of graduate students.

PREREQ: ACC 252.

ACC 460 **Principles of Fraud Examination** 3 Y

Double Numbered with: ACC 760

Nature of occupational fraud and abuse in organizations. How and why occupational fraud is committed, detected and deterred; how to proceed if fraud is suspected. Emphasis on asset misappropriation schemes, corruption, and financial statement fraud. Additional work required of graduate students.

PREREQ: ACC 252.

ACC 476 **Auditing Theory/Practice** 3 S

Double Numbered with: ACC 726

Audit practice and reporting on financial statements. Audit standards, the demand for auditing, and regulatory, legal, and ethical influences on auditors. Audit objectives, evidence, control environment, and risk assessments. Case studies and problems. Extra work required of graduate students.

PREREQ: ACC 356.

ACC 477 **Advanced Financial Accounting** 3 Y

Double Numbered with: ACC 756

Accounting and reporting for business combinations, foreign currency transactions, derivatives, and governmental entities. Extra work required of graduate students.

PREREQ: ACC 357 OR ACC 602.

ACC 481 **Taxation of Business Entities** 3 IR

Double Numbered with: ACC 777

Federal taxation of the formation, operation, liquidation, and reorganization of partnerships, subchapter C, subchapter S, and limited liability corporations. Federal taxation of partners and shareholders. Extra work required of graduate students.

PREREQ: ACC 385 OR ACC 685.

ACC 482 **Advanced Auditing** 3 Y

Double Numbered with: ACC 747

Seminar discussion of advanced auditing research and cases. Topics include the market for assurance services, auditor decision making, audit risk, and information systems auditing. Extra work required of graduate students.

Business Administration

BUA 470 **Experience Credit** 1-6 IR

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

BUA 480 **International Course** 1-12 IR

Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the S.U. academic department to assign the appropriate course level, title, and grade for the student's transcript. R

BUA 490 **Independent Study** 1-6 IR

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

BUA 499 **Honors Thesis** 3-6 SI

R, 6 credits maximum

Entrepreneurship And Emerging Enterprises

EEE 110 **Discovering the Entrepreneur Within** 1 S

Self-exploration of issues surrounding creativity, innovation, and entrepreneurship (CIE) as they apply in all facets of life. Students apply their creative potential in various contexts, including a community-based social entrepreneurship project. Students must be enrolled in the Creativity, Innovation, and Entrepreneurship Learning Community. R2, 3 credits maximum

EEE 370 **Introduction to Entrepreneurship and Emerging Enterprises** 3 S

Course focuses on what it takes to start, grow, and sustain new ventures. Topics include: understanding entrepreneurs and their teams, evaluating opportunities, creating a venture plan, securing resources. Readings and guest lecturers emphasized.

EEE 375 **Entrepreneurial and Family Business Management** 3 Y

Special issues facing entrepreneurial and family businesses: choice of organizational form, business planning, tax and compensation planning, business valuation, and succession strategies. Case studies and guest lectures.

EEE 378 **Imagination, Entrepreneurship and Creative Problem Solving** 3 Y

Creativity and ideation as they relate to entrepreneurship. Perspectives on opportunity discovery and assessment are examined. Theoretical and conceptual foundations for the application of creativity to business problem solving are investigated. PREREQ: EEE 370.

EEE 382 **Entrepreneurial Marketing** 3 Y

The roles of marketing in entrepreneurial ventures and of entrepreneurship in the firm's marketing efforts. Emphasis on risk management, leveraging, and leveraging approaches. PREREQ: MAR 255.

EEE 400 **Selected Topics** 1-3

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

EEE 420 Corporate Entrepreneurship 3 Y
Examination of the application of entrepreneurship concepts and behaviors within established organizations, assessment of factors contributing to a company's entrepreneurial orientation, and identification of ways to foster higher levels of entrepreneurship within firms.
PREREQ: EEE 370.

EEE 439 Entrepreneurship and Digital Commerce 3 Y
The role of emerging digital technologies and the internet in creating entrepreneurial opportunities.
PREREQ: EEE 370.

EEE 442 Emerging Enterprise Law 3 Y
Law as regulator of emerging enterprises: formation, financing, siting the enterprise, intellectual property, debtor-creditor relations, global markets. Law as opportunity: in emerging fields such as pollution prevention, sustainable development, and international treaties.
PREREQ: LPP 255.

EEE 443 Emerging Enterprise Consulting 3 Y
Students nearing the completion of their studies work in consulting teams to assist local small firms and entrepreneurs. Problems are isolated and solutions are then developed and implemented. A team consultant's report is then prepared.

EEE 444 Dilemmas and Debates in Entrepreneurship 3 Y
Double Numbered with: EEE 644
Designed around a series of critical dilemmas confronted by entrepreneurs when creating and growing a venture. Entrepreneurs explore with students the issues surrounding these dilemmas in a structured format. Additional work required of graduate students.

EEE 446 Minority and Woman's Entrepreneurship: Race, Gender, and Entrepreneurial Opportunity 3 Y
Topics covered include: race, gender, and ethnicity as factors that impact entrepreneurship. The theoretical underpinnings of minority and women's entrepreneurship and their opportunities, challenges, and strategies to venture formation.

EEE 451 Finance for Emerging Enterprises 3 Y
A hands-on case course on raising and managing working capital in the emerging enterprise. Topics include: factoring, venture capital, receivables and payables management, planning for sustainable growth, etc. Course requires use of computer spreadsheets.
PREREQ: EEE 370.

EEE 457 Strategic and Entrepreneurial Management 3 S
The capstone integrative experience for management majors culminating in the development of a comprehensive plan for a new business venture or a nonprofit organization.

EEE 458 Business Plan Laboratory 1 S
Applied discussions regarding research, data collection, analysis, debate, insight, and writing skills required to create quality plans for original new venture concepts. Attention is devoted to business plan logic, structure and audiences.

EEE 464 Entrepreneurial Empowerment 3
Double Numbered with: EEE 664
Hands-on course that introduces students to the South African context, township entrepreneurship, the basics of the consulting process, the Supporting Emerging Enterprise consulting model, and approaches to managerial issues in emerging enterprises. Offered in South Africa only.

EEE 470 Experience Credit 1-6 IR
Participation in a discipline or subject related experience. Student must be evaluated by written or oral reports or an examination. Permission in advance with the consent of the department chairperson, instructor, and dean. Limited to those in good acad R

Finance

FIN 256 Corporation Finance 3 S
General principles: promotion, methods of raising fixed capital, various types of securities, administration of income expansion, financial difficulties.
PREREQ: ACC 252, ECN 203, MAS 261;
COREQ: MAR 255, SCM 265.

FIN 301 Essentials of Finance 3 S
Introduction to financial statement analysis and interpretation, time value of money, capital budgeting and global financial network. Students may not receive credit for FIN 301 if they receive credit for FIN 355 or FIN 256.
PREREQ: ACC 151 OR ACC 201.

FIN 302 Global Financial Systems Architecture 3 Y
Crosslisted with: IST 302
Structures of real-world information systems in the money supply chain. Emphasis on large-scale banking organizations and their challenges in moving and processing millions of complex transactions worldwide for all types of customers.

FIN 355 Money & Banking 3 Y
General principles: organization and control of the banking system, commercial bank functions and operations, organization and operation of the Federal Reserve System, and monetary theory and policy.

FIN 378 Financial Planning 3 Y
Crosslisted with: ACC 378
Introduction to financial planning concepts, including analysis of personal financial statements, tax planning, credit management, retirement planning, estate planning, and insurance planning.
PREREQ: FIN 256 OR FIN 301.

FIN 400 Selected Topics 1-3 IR
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

FIN 453 New and Emerging Markets 3 Y
Crosslisted with: INB 453
Analysis of the business, economic, and financial environment of emerging markets. Portfolio investment and corporate finance in emerging markets.
PREREQ: FIN 256 OR FIN 301.

FIN 455 Financial Management 3 S
Problems and procedures of financial management encountered in normal operations of a corporation. Planning and controlling working capital needs. Capital budgeting. Financial capital needs. Dividend and expansion policies.
PREREQ: FIN 256 OR FIN 301, MAS 362.

FIN 456 Investments 3 S
Analytical framework for investment decision making. Principles and techniques of analyzing industries and companies, managing specific portfolios.
PREREQ: FIN 256 OR FIN 301, MAS 362.

FIN 457 Internatl Financial Manag 3 Y
Exchange rate, determination and forecasting, currency exposure management, international capital budgeting, cost of capital, international financial markets, currency based derivative markets, international taxation, and banking. Foreign direct investment and theory of the multinational enterprise.
PREREQ: FIN 256 OR FIN 301.

FIN 458 Fin Instns/Portfolio Mgmt 3 IR
Goals, practices, and problems of various investing institutions. Modern portfolio theories and techniques.
PREREQ: FIN 456.

FIN 459 Introduction to Derivatives 3 Y
Double Numbered with: FIN 659
Pricing, market structure, hedging, trading strategies, arbitrage relationships, and applications to corporate securities for options and futures contracts, swaps, and other derivative instruments. Additional work required of graduate students.
PREREQ: FIN 256 OR FIN 301.

FIN 461 Financial Modeling 3 Y
Build models for financial statement analysis, valuation, capital budgeting, capital structure, portfolio selection, interest rate risk, option valuation, and other areas of finance using a computer tool such as Microsoft Excel.
PREREQ: FIN 455.

FIN 465 The Securities Market 3 Y
Double Numbered with: FIN 665
Role and nature of securities markets in our economy and the needs they serve. Market concept; criteria for studying the effectiveness of securities markets.
PREREQ: FIN 256 OR FIN 301, MAS 362.

FIN 466 Value/Distress Investing 3 Y
Double Numbered with: FIN 666
Different approaches to the investment process: academic finance vs. traditional security analysis. The essentials of value investing. Investment vs. speculation; corporate valuation. Distress investing as value investing. Cases and applications. Additional work required of graduate students.
PREREQ: FIN 256 OR FIN 301.

FIN 468 Seminar in Finance 3 IR

Double Numbered with: FIN 668

Specialized work for advanced students on particular phase or topic in finance. Reading, reports, and thesis.

PREREQ: FIN 256 OR FIN 301.

FIN 471 Financial Instit & Mkts 3 IR

Commercial banks, savings institutions, credit unions, finance companies, investment companies, securities firms, pension funds, insurance companies, bank regulations, bank-off balance sheet activities, interest rate and exchange rate determination, interest rate management in financial institutions, financial markets and instruments, international banking.

PREREQ: FIN 256 OR FIN 301.

International Business

INB 453 New and Emerging Markets 3 Y

Crosslisted with: FIN 453

Analysis of the business, economic, and financial environment of emerging markets. Portfolio investment and corporate finance in emerging markets.

PREREQ: FIN 256 OR FIN 301.

Law And Public Policy

LPP 255 Introduction to the Legal System 3 S

The legal system and public policy issues emphasizing the impact of the legal environment on management decision making. Includes ethics and international topics. Development of analytical and communication skills.

LPP 455 Law of Business Organizations 3 IR

Double Numbered with: LPP 755

Legal aspects of organizations formed to carry on business enterprises: agencies, partnerships, and corporations.

PREREQ: LPP 255 OR MBC 643.

LPP 456 Land Development Law 3 IR

Double Numbered with: LPP 756

Regulations pertaining to land development. Nuisances, eminent domain, regulatory takings, zoning, growth, management controls, environmental impact analysis, and protection of sensitive land areas.

PREREQ: LPP 255 OR MBC 643.

LPP 457 Law of Commercial Transactions 3 Y

Double Numbered with: LPP 757

Legal aspects of commercial transactions. Contracts, sale of goods, commercial paper, and secured transactions.

PREREQ: LPP 255 OR MBC 643.

LPP 458 Environmental Law and Public Policy 3 IR

Double Numbered with: LPP 758

Range of environmental problems from a legal and public policy viewpoint: air, water, and toxics pollution; solid and hazardous waste; and environmental planning.

LPP 459 The Law of Global Business 3 Y

Crosslisted with: SCM 459

The legal environment of international business: the framework of international law influencing international business. Topics include the international law and organizations, international contracts, carrier liability, customs, and world trade law.

PREREQ: LPP 255, SCM 265.

LPP 464 Employment Law 3 Y

The law of the employment relationship: employment-at-will, noncompete and nondisclosure covenants, equal employment opportunity legislation, labor relations and protective employment legislation.

PREREQ: LPP 255.

LPP 465 Business and Contemporary Society 3 IR

Role of business in contemporary society. Relations of the private and public sectors. Techniques available to business to contribute to the solution of social problems.

LPP 467 Management and Ethics 3 Y

Double Numbered with: LPP 767

Ethical dilemmas encountered by managers of organizations. Individual ethical responsibility versus role responsibility. Pressures within organizations to violate ethical duties. How an organization can be managed so that employees can deal effectively with ethical dilemmas. Extra work required of graduate students.

Management Information Systems

MIS 325 Introduction to Information Systems for Managers 3 S

Management and effective use of information systems and e-business technologies to improve business decision-making, conduct electronic commerce, revitalize business processes, and gain competitive advantage.

MIS 335 Information Systems for Decision Support 3 IR

Decision-making and decision modeling skills for improving business performance. Design and programming of business applications using MS-Excel and Visual Basic Applications (VBA).

PREREQ: MIS 325.

MIS 345 Development and Programming of Business Applications 3 IR

Use of a programming language in the structural design and implementation of business applications. Use of good software design principles and cross-platform application integration capabilities.

MIS 355 Management of Information Systems 3 IR

Concepts and techniques in managing the development and utilization of information systems. Systems planning, development, implementation, and control.

PREREQ: MIS 325.

MIS 365 Business Value of Information Technology 1.5 Y

Crosslisted with: IST 365

Financial measures of IT value including TCO, ROI, and NPV; non-financial dimensions of business value such as strategic fit, IT investment risk; IT governance and IT models; measuring IT performance; IT change management.

MIS 375 Management of Information Technology Contracting 1.5 Y

Crosslisted with: IST 375

Budgeting and controlling IT costs; IT procurement including requirements specification, requests for proposals, evaluation criteria, and vendor selection; evaluating and managing vendor performance; developing and monitoring contracts.

MIS 425 Management Information Systems Analysis and Design 3 IR

Management of information systems development from a business perspective. Focus on mainstream and emerging systems analysis and design techniques. First-hand experience with commercial tools used in information systems development projects.

PREREQ: MIS 325.

MIS 435 Principles of Database Management 3 IR

Database and data warehousing concepts, design principles, and methods of use in assisting management decision-making and in building Web-based database applications. Focus on widely used commercial database environments.

PREREQ: MIS 325.

MIS 445 Implementing a Web-enabled Enterprise 3 IR

Double Numbered with: MIS 645

Identify a business opportunity, develop an e-business strategy, and design the web store. Gain hands-on experience in setting up a fully functional web store.

Managerial Statistics

MAS 261 Introductory Statistics for Management 3 S

Basic statistical theory and data analysis methods. Describing data graphically and numerically. Probability distributions. Sampling. Statistical tests and intervals. Use of computer statistics programs. Emphasis on choice, limitations, and interpretation of methods for management use. Sophomore standing.

PREREQ: MAT 183.

MAS 362 Decision Tools for Management 3 S

Review of important statistical concepts. Mathematical models for management data emphasizing correct use and interpretation of results. Linear and logistic regression. Time series analysis. Model assumptions and limitations.

PREREQ: MAT 183, MAT 284, AND MAS 261.

MAS 423 Introduction to Nonparametric Statistics 3 IR

Selected nonparametric statistical methods; those requiring few assumptions about the population. Related aspects of probability theory, hypothesis formulation and testing, and estimation for population location, dispersion, and functional form.
PREREQ: MAS 362.

MAS 465 Applied Sample Survey Methods 3 IR

Survey methods applicable to management and other social science areas. Various sample designs: cost and accuracy, estimation for population location, dispersion, and functional form.
PREREQ: MAS 362.

MAS 466 Data Mining for Managers 3 IR

Statistical approach to data mining; regression, time series, and multivariate methods applied to management. Analysis of high frequency data, large data set; forecasting, classification; neural network methods; case examples.
PREREQ: MAS 362.

MAS 477 Time Series Analysis and Forecasting 3 Y

Basic concepts applied to management. Discrete time-series analysis for forecasting and control. Selected statistical models. Regression analysis. ARIMA methods, econometric modeling. Forecasting and business planning. Evaluation of forecasts. Case studies.
PREREQ: MAS 362.

MAS 488 Introduction to Causal Models 3 IR

Analytical techniques for formulating and testing structural models with applications to management situations; path analysis; case examples.
PREREQ: MAS 362.

Marketing Management

MAR 255 Principles of Marketing 3 S

Marketing as a major business function and social process. Analysis of market forces. Marketing opportunities. Determination of price, product, distribution, promotion, and organization policies required to control and fulfill planned marketing programs.
COREQ: FIN 256, SCM 265.

MAR 301 Essentials of Marketing 3 S

Exploration for non-Whitman students of the principles of marketing as a major business function and social process. Analysis of marketing forces. Marketing opportunities. Determination of price, product, distribution, promotion and organizational policies required. Sophomore standing.

MAR 307 Sales and Strategic Partnerships 3 S

Crosslisted with: RMT 307
Applications of sales theory, concepts, training and technology in the fields of professional personal selling and sales management.
PREREQ: MAR 255 OR MAR 301.

MAR 356 Marketing Research 3 S

Application of various research methods to marketing. Planning, design, execution, and interpretation of applied marketing research studies. MAS 362 must be taken prior to or concurrently with MAR 356.
PREREQ: MAR 255.

MAR 357 Consumer Behavior 3 S

Motivation, learning theory, perception, attitude theory, and social referents: how they affect consumer behavior. Consumer measurement and strategy assessment.
PREREQ: MAR 255 OR MAR 301.

MAR 378 Industrial Marketing 3 IR

Industrial market behavior and market segmentation. Planning and marketing research. Determination of price, product, distribution and promotion in the context of industrial marketing. Industrial marketing evaluation and control.
PREREQ: MAR 255 OR MAR 301.

MAR 400 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

MAR 401 Electronic Retailing and Marketing 3 Y

Crosslisted with: RMT 457
Overview of current e-tailing practices in business to consumer marketplace. Internet technology and capabilities.
PREREQ: MAR 255 OR 301.

MAR 444 New Product Management 3 Y

The product innovation process. Learning how managers can best use models and analytical tools to improve decision-making in the development, launch, and management of new products.
PREREQ: MAR 255 OR MAR 301.

MAR 445 Brand Management 3 Y

Concepts and tools essential for performing the role of a brand manager in a dynamic and competitive market. Coordinating marketing activities to achieve a profitable and sustainable market position of the brand.
PREREQ: MAR 255 OR MAR 301.

MAR 455 Marketing Communications 3 Y

Management of marketing communications. Topics include: budgets, planning campaigns, controlling impact and coordinating information flows. Students taking ADV 206 may not use MAR 455 to fulfill marketing major/minor requirements.
PREREQ: MAR 255 OR MAR 301.

MAR 456 Global Marketing Strategy 3 S

Building on concepts from previous marketing courses, this capstone course provides students both research and conceptual tools for understanding and making decisions about marketing strategy in the rapidly changing global environment. Senior standing.
PREREQ: MAR 255 OR MAR 301.

Organization And Management

O&M 371 Leading Small Organizations 3 Y

Crosslisted with: MSL 371
This course is designed to teach small unit leadership and introduce students to the planning process and Army operations. This course is preparation for the Leader Development and Assessment Course of the U.S. Army. First offered in Spring 2011

O&M 372 Practicum in Leading Small Organizations 3 Y

Crosslisted with: MSL 372
This course uses increasingly intense situational leadership challenges to build cadet awareness and skills in leading operations up to platoon level. Cadets review aspects of combat, stability, and support operations. They also conduct military briefings and develop proficiency in garrison operation orders. First offered in Spring 2011

O&M 405 Concepts of Air Force Management 3 Y

Crosslisted with: ASC 305
Theory and application of general concepts of leadership to Air Force situations. Group discussions, case studies, and role playing. Oral and written reports.

O&M 406 Concepts of Air Force Management 3 Y

Crosslisted with: ASC 306
General theory and practice of management, especially in the Air Force. Information systems, quantitative approaches to decision making, and resource control techniques used by Air Force managers.
PREREQ: O&M 405 OR ASC 305.

Real Estate

RES 400 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

RES 431 Real Estate Principles 3 Y

The understanding of real estate fundamentals, including roles, activities, terminology, transaction processes and how the tools and models in real estate are used to make informed decisions, with emphasis on developing valuation skills.
PREREQ: FIN 256 OR FIN 301.

RES 442 Real Estate Development 3 Y

Build understanding of the real estate development process. Deliver the prerequisite understanding of terms, concepts and competencies necessary for a basic understanding of and participation in real estate development.
PREREQ: FIN 256 OR FIN 301.

RES 443 Real Estate Capital Markets 3 Y

Real estate debt and equity instruments. Primary and secondary mortgage markets, mortgage banking, loan instruments, and securitization. Lender and borrower decisions regarding real estate financing.
PREREQ: RES 431.

RES 462 Real Estate Finance and Investment 3 Y

Real estate investment, finance, and valuation. Different measures of investment performance, impact of the financing decision, and various real estate financing techniques.
PREREQ: RES 431.

Retail Management

RMT 301 Retailing Fundamentals 3 S

Retail mix: location, layout, organization, merchandise, pricing, customer services, sales promotion, and consumer trends. Retail research introduced through examination of target market and demographics.

RMT 307 Sales and Strategic Partnerships 3 S

Crosslisted with: MAR 307
Applications of sales theory, concepts, training and technology in the fields of professional personal selling and sales management.
PREREQ: MAR 255 OR MAR 301.

RMT 314 Product Development for Retail Management 3 S

Processes involved in total soft goods product development cycle from managerial perspective. Includes forecasting, costing, pricing, global trade agreements, tariffs, sourcing, distribution, and marketing.
PREREQ: RMT 301.

RMT 333 Professional Practice 1 S

Necessary career skills and job search strategies to be successful on their career track. Topics include networking tactics, cover letter composition, resume writing, interview skills, and on-the-job interpersonal strategies. Junior standing.

RMT 357 Visual Merchandising and Store Planning 3 S

Composition, color, and design theory applied to merchandise display in retail setting. Fundamentals of store planning: space allocation, lighting, exteriors.
PREREQ: RMT 301.

RMT 407 Retail Buying and Planning 3 Y

Introduction to the fundamental strategies and mathematical calculations used in the retail industry including financial strategy, buying strategy, and pricing strategy.
PREREQ: RMT 301.

RMT 457 Electronic Retailing and Marketing 3 Y

Crosslisted with: MAR 401
Overview of current e-tailing practices in business to consumer marketplace. Internet technology and capabilities.
PREREQ: MAR 255 OR MAR 301.

RMT 475 Supervised Internship 2 Y

Individual work experience related to student's major area of interest and career goal. On-the-job supervised experience integrated with classroom history. Junior standing.
PREREQ: RMT 333.

School Of Management

SOM 110 Management Learning Community Seminar 1 Y

Discussion of connections between coursework and out-of-classroom experiences. Divided into three sections: how one learns, process of learning, and impact of learning environment.
COREQ: SOM 122, WRT 105.

SOM 122 Perspectives of Business and Management 3 Y

Understanding of role and responsibility of management in society; fundamental knowledge of nature and integration of functional disciplines in business; skills essential to effective management; development of base for academic/career mission and achievement.

SOM 144 Transition to Whitman School of Management 1 S

Introduction to Whitman School of Management and Syracuse University for external transfer students. Topics include rules and regulations, programs, academic opportunities, and Syracuse and campus life. Reading and writing on University life and issues.

SOM 201 Community Service for Management Students 0-3 S

Students develop and practice leadership skills in public or not for profit agencies by integrating and applying academic knowledge to problems. Designed to cultivate in students the commitment for a lifetime participation in the community.

SOM 301 Internship for Management Students 0-3 S

Students develop and practice leadership skills by applying knowledge gained in their academic program to business problems and needs. Intended to encourage mutually beneficial relationships among students and businesses.

SOM 354 Managing in a Global Setting 3 S

Introduction to the concepts, framework, and issue of global business and how they influence management decisions: multinational firms; international trade; and the cultural, political, institutional, social, and economic environment of the global marketplace.

Strategy And Human Resources

SHR 247 Introduction to Strategic Management 3 S

How a firm's leadership structure guides the strategic management process. Topics covered include the role of the CEO and top management team, internal and external analysis and strategy formulation and implementation.

SHR 346 Organizational Behavior 3 Y

Individual and group behavior in complex organizations. Influence of organization structure and management practices on individual and group work behavior.

SHR 355 Strategic Human Resource Management 3 S

Human resources as a source of competitive advantage and financial performance. Employment law, reward and control systems, human resource architecture, workforce development.

SHR 447 Advanced Topics in Strategic Management 3 Y

Solution of unstructured managerial problems requiring the application of students' integrated knowledge of the management curriculum using comprehensive organizational case problems. Junior standing.
PREREQ: SHR 247, FIN 256, MAR 255, SCM 265.

SHR 448 Management in a Cross-cultural Environment 3 IR

Factors that have an impact on managerial effectiveness in an international organization: language, religion, values and attitudes, educational structure, social organization, technology, political climate, and legal environment.
PREREQ: SOM 354.

SHR 454 Compensation Administration 3 IR

Double Numbered with: SHR 754
Concepts, models, theories, and legislation related to employee compensation: wage theory, job analysis, job evaluation, job structure pricing, employee motivation, individual appraisal and reward, and benefits.
PREREQ: SHR 355 OR SHR 656.

SHR 462 Leadership and Organization Change 3 Y

Double Numbered with: SHR 762
Nature of the organizational development field and dominant methods, models and perspectives taken. Opportunities provided to increase skills and effectiveness in diagnosing and intervening in ongoing systems.

Supply Chain Management

SCM 265 Introduction to Supply Chain Management 3 S

The concepts, issues, and techniques for managing supply chains. Analysis and problems of material and information flows in supply chains.
PREREQ: MAS 261 COREQ: MAR 255, FIN 256.

SCM 400 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

SCM 401 Supply Chain and Logistics Management 3 S

Influence of supply chain management and logistics on corporate strategy and profitability. Topics include transportation economics and operations, customer service, and international logistics, as well as other related topics.
PREREQ: MAR 255, SCM 265.

SCM 402 Supply Chain Management Systems 3 Y

Supply chain management systems: electronic communication, scanning, and tracking systems, enterprise-wide transactional systems, material and distribution requirements planning, supply chain planning.
PREREQ: SCM 401.

SCM 403 Introduction to Management Science 3 Y

Modeling techniques and applications for managerial decision making.
PREREQ: MAS 261.

SCM 421 Fundamentals of Sourcing 3 Y

Impact of purchasing and supply chain management on competitive success. Ethical, contractual, and legal issues faced by purchasing professionals. Strategic nature of purchasing, negotiating tactics, and cutting-edge technology used in "world class" purchasing departments.
PREREQ: MAR 255, SCM 265.

SCM 431 Transportation and Distribution Center Management 3 Y

Explores carrier management and operations. Studies distribution center design and operations in-depth. Includes hands-on experience in working real world distribution center and transportation problems.
PREREQ: MAR 255; SCM 265.

SCM 455 Lean Six Sigma 3 Y

Double Numbered with: SCM 755
Six sigma process-improvement approach focused on quality, reliability and value to customers. Skills include techniques from the define, measure, analyze, improve and control (DMAIC) approach. Lean concepts from supply chain management. One graduate statistics course and permission of instructor required. Additional work required of graduate students.
PREREQ: SCM 265.

SCM 456 Introduction to Project Management 3 Y

Elements of successful project management. The organization and planning necessary from requirements definition to project closure. Project management processes and techniques.
PREREQ: SCM 265.

SCM 459 The Law of Global Business 3 Y

Crosslisted with: LPP 459
The legal environment of international business: the framework of international law influencing international business. Topics include the international law and organizations, international contracts, carrier liability, customs, and world trade law.
PREREQ: SCM 265, LPP 255.

Faculty

Susan Albring, Assistant Professor of Accounting
Ph.D., University of Arizona, 2003

Amber Anand, Associate Professor of Finance
Ph.D., Baruch College, 2001

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Ph.D., University of Wisconsin-Madison, 2005

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Ph.D., Stanford University, 1984

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M.B.A., Johnson and Wales University, 1998

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M.B.A., Syracuse University, 1977

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Ph.D., University of Colorado at Boulder, 2005

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J.D., Syracuse University, 1975

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Lihong Liang, Assistant Professor of Accounting
Ph.D., Pennsylvania State University, 2002

Susan Long, Associate Professor of Managerial Statistics, Co-Director of Transactional Records Access Clearinghouse
Ph.D., University of Washington, 1980

G. Thomas Lumpkin, The Chris J. Witting Chair in Entrepreneurship
Ph.D., University of Texas at Arlington, 1996

Catherine Maritan, Associate Professor of Management
Ph.D., Purdue University, 1998

Stephen Matyas, Assistant Dean of Undergraduate Programs
M.B.A., Syracuse University, 1997

Tridib Mazumdar, Howard R. Gendal Professor of Marketing
Ph.D., Virginia Polytechnical Institute, 1987

Alex McKelvie, Assistant Professor of Entrepreneurship
Ph.D., Jönköping International Business School, 2007

Amanda Nicholson, Assistant Professor of Retail Management
M.S., Syracuse University, 2001

Georgette Nicolaidis, Clinical Assistant Professor of Statistics
M.B.A., University of Texas at Arlington, 2003

Julie Niederhoff, Assistant Professor of Supply Chain Management
Ph.D., Washington University in St. Louis, 2007

Patrick Penfield, Assistant Professor of Supply Chain Practice
M.B.A., Le Moyne College, 1998

John Petosa, Adjunct Professor, Accounting
J.D., Syracuse University, 1995

Milena Petrova, Assistant Professor of Finance
Ph.D., University of Florida, 2006

Sandra Phillips, Assistant Professor of Finance
Ph.D., St. Louis University, 1999

S.P. Raj, Distinguished Professor of Marketing
Ph.D., Carnegie Mellon University, 1980

Kira Reed, Assistant Professor of Management
Ph.D., University of Connecticut, 2000

Daniel Rice, Adjunct Professor, Law and Public Policy
J.D., Syracuse University, 1990

Breagin Riley, Assistant Professor of Marketing
Ph.D., Northwestern University, 2009

Minet Schindehutte, Associate Professor of Entrepreneurship
Ph.D., University of South Africa, 1990

Ravi Shukla, Associate Professor of Finance
Ph.D., State University of New York at Buffalo, 1989

Susan Smith, Professor of Marketing Practice
M.B.A., Boston College, 1981

Marcene Sonneborn, Adjunct Professor, Entrepreneurship
M.B.A., Syracuse University, 1989

Melvin Stith, Dean of the Martin J. Whitman School of Management
Ph.D., Syracuse University, 1978

Clint Tankersley, Associate Dean of Undergraduate Programs, Associate Professor of Marketing
Ph.D., University of Cincinnati, 1974

Neil Tarallo, Assistant Professor of Entrepreneurial Practice
M.B.A., Syracuse University, 1994

Alex Thevaranjan, Associate Professor of Accounting
Ph.D., University of Minnesota, 1993

Pamela Trendell, Assistant Professor of Finance Practice
M.B.A., Syracuse University, 1990

Frances Tucker, Chair and Associate Professor of Marketing and Supply Chain Management
Ph.D., Ohio State University, 1980

Raja Velu, The Irwin and Marjorie Gutttag Professor of Managerial Statistics
Ph.D., University of Wisconsin, 1983

Padmal Vitharana, Associate Professor of Management Information Systems
Ph.D., University of Wisconsin-Milwaukee, 2000

Mark Wademan, Adjunct Professor, Management Information Systems
Ph.D., Syracuse University, 2006

Ginger Wagner, Assistant Professor of Accounting Practice
M.B.A., Syracuse University, 2003

William Walsh, Assistant Professor of Accounting Practice, Director of Joseph I. Lubin School of Accounting
M.B.A., Syracuse University, 1989

A. Joseph Warburton, Assistant Professor of Finance
J.D., University of Michigan, 1996; Ph.D., University of Michigan, 2009

Boyce Watkins, Assistant Professor of Finance
Ph.D., Ohio State University, 2002

Craig Watters, Assistant Professor of Entrepreneurial Practice
Ph.D., Syracuse University, 2005

Scott Webster, The Steven Becker Professor of Supply Chain Management
Ph.D., Indiana University, 1990

David Weinbaum, Associate Professor of Finance
Ph.D., New York University, 2002

Johan Wiklund, Associate Professor of Entrepreneurship
Ph.D., Jönköping International Business School, 1998

Raymond Wimer, Assistant Professor of Retail Management
M.S., Syracuse University, 1998

Yildiray Yildirim, Chair and Associate Professor of Finance
Ph.D., Cornell University, 2001

Pierre Yourougou, Clinical Associate Professor of Finance
Ph.D., New York University, 1996

Joyce Zadzilka, Assistant Professor of Accounting Practice
M.B.A., Syracuse University, 1996

Maxwell School Of Citizenship And Public Affairs

Michael Wasylenko Interim, Dean
200 Eggers Hall
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Undergraduate Majors

Maxwell is home to the social sciences. Its faculty members teach lower-division survey courses in each of the social science disciplines, offer interdisciplinary courses in social sciences, and provide an array of majors and minors in social science areas. Undergraduate degrees are offered in anthropology, economics, geography, history, international relations, political science, policy studies, and sociology.

Students may take multiple majors within the social sciences or pursue additional majors in areas outside of the Maxwell School. Many of our undergraduate programs offer distinction in their majors. Students who graduate with distinction typically are selected for the distinction, conduct research with one or more faculty members, and write a scholarly paper based on their research.



Courses

Anthropology

ANT 100 **Selected Topics 1-3 SI**

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ANT 111 **Introduction to Cultural Anthropology 3 S**

Economics, politics, religion, symbolism, rites of passage, developmental cycle, and expressive culture. Required for Anthropology majors.

ANT 112 **Introduction to African American Studies in Social Sciences 3 S**

Crosslisted with: AAS 112
Historical and sociopolitical materials. Approaches to studying the African American experience, antecedents from African past, and special problems.

ANT 121 **Peoples and Cultures of the World 3 S**

Case studies of global cultural diversity. Exploration of daily life, rites of passage, marriage, family, work, politics, social life, religion, ritual, and art among foraging, agricultural, and industrial societies.

ANT 131 **Introduction to Biological Anthropology 3 Y**

Biological anthropology subfields; anthropology's relationship to history of science. Evolutionary theory; mechanisms of evolution; survey of the non-human primates; humans ancestral to modern Homo sapiens; and modern human variation. Required for Anthropology majors.

ANT 141 **Introduction to Archaeology and Prehistory 3 Y**

Survey of the prehistoric past spanning the origins of humankind through the rise of complex societies. Class activities and field trips provide a hands on introduction to archaeological interpretation.

ANT 145 **Introduction to Historical Archaeology 3 Y**

Crosslisted with: HST 145
Role of history and archaeology in our understanding of 17th- to 19th-century Europe, Africa, and America. Historical archeology as a mechanism to critique perceptions of the past. Firsthand record of ethnic groups and cultural settings not recorded in writing.

ANT 185 **Global Encounters: Company World Views & Values Cross-Culturally 3 Y**

Predominant views of reality and values in the cultures of Asia, Africa, and the Americas. Humanistic study of cultures and nature of cross-cultural understanding.

ANT 200 **Selected Topics 1-3 SI**

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ANT 201 **Transnational Feminist Studies 3 Y**

Crosslisted with: WGS 201
Comparative study of women's lives, experiences, histories, and struggles across national and regional borders. Focuses on questions of theory, methodology, and politics of knowledge involved in cross-cultural feminist studies.

ANT 202 **Languages of the World 3 Y**

Crosslisted with: LIN 202
Introduction to Universal Grammar. Similarities and differences in structures of human languages. Syntax and morphology. Theory development.
PREREQ: LIN 201.

ANT 270 **Experience Credit 1-6 S**

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

ANT 273 **Indigenous Religions 3 E**

Crosslisted with: NAT 244, REL 244
The connections between material life and religious life in cultures throughout the world. The diverse ways that various cultures inhabit their landscapes.

ANT 290 **Independent Study 1-6 S**

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

ANT 300 **Selected Topics 1-3 SI**

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ANT 311 **Anthropological Theory 3 Y**

Anthropological theory focusing on debates about human nature, cultural and racial diversity, and the goals of anthropology as a discipline. Required for majors.

ANT 312 **Race, Ethnicity & Cities 3 IR**

Social and cultural variation throughout cities of the world. Historical, political, familial, and symbolic aspects of ethnicity, race, and social class in urban areas.

ANT 318 **African Cultures 3 IR**

Selected contemporary African cultures. West Africa and the impact of the slave trade. Aspects of colonialism and neocolonialism and their relationship to current social and political development.

ANT 322 **South American Cultures 3 Y**

Crosslisted with: LAS 318
Archaeology and cultural history. Racial, linguistic, and cultural areas from 1492 to today. Studies of contemporary Indian and Mestizo populations.

ANT 323 **Peoples and Cultures of North America 3 IR**

Crosslisted with: NAT 323
Racial, linguistic, and cultural areas of North America from the Rio Grande to the Arctic. Selected areas and tribes. Data from archaeology, historical records, and contemporary anthropological fieldwork.

ANT 324 **Modern South Asian Cultures 3 SI**

Crosslisted with: SAS 324, WGS 324
Societies of India, Pakistan, Bangladesh, and Sri Lanka. Social organization, economic and political structures, religions and world view, survey of languages, the arts. Transition and modernization, rural and urban problems.

ANT 325 **Anthropology of American Life in Film 3 Y**

Analysis of American culture using film and literature. Concept of "national character." Major cultural configurations and themes.

ANT 326 **Africa Through the Novel 3 IR**

Crosslisted with: WGS 327
Cultural, political, and social life of Africa and Africans through African literature. Each semester deals with a motif (e.g., novels of Achebe).

ANT 327 **Anthropology of Race in Latin America and the Caribbean 3 IR**

History of racial ideologies in Latin America and the Caribbean; interactions of racial ideologies with self concepts and life chances; racial ideologies' shaping of expressive culture and religion; antiracism movements and legislation; race and transnational migration.

ANT 331 **Primate Evolution & Ethology 3 IR**

Evolution of nonhuman primates and behavior patterns of their living descendants. PREREQ: ANT 131.

ANT 346 **Gender Through the Ages 3 IR**

The study of gender in archaeology from the late Stone Age to Modern era.

ANT 348 **History of Archaeology 3 IR**

Double Numbered with: ANT 648
Tracing the discipline's origins with the Renaissance dilettante. Brief survey of scientific and quantitative methods.

ANT 349 **Archaeology at the Movies: The Scientific Study of the Past in Popular Culture 3 Y**

Introduction to modern archaeology and the scientific study of the past. Utilizing fictional portrayals of archaeological interpretation in popular culture the course examines some of the major research questions of modern anthropology.

ANT 352 **Food, Culture and Identity 3 S**

Offered only in London. Introduction to a variety of critical approaches; questions about power and representation; role of food in construction of identity. Enrollment in SU Honors Program or GPA of 3.4 or higher is required

ANT 355 Spanish Society and Pop Culture 3 S

Crosslisted with: SOC 345

Offered only in Madrid. Explores what is considered important, good, and fashionable in Spain today and how these values relate to historical developments as well as foreign influences.

ANT 356 Applied Anthropology 3 IR

Describes past and present uses of anthropology in social policy. Examines the discipline's role in addressing global issues such as economic development, environmental degradation, indigenous rights, refugees, and health care. Careers in nonacademic settings.

ANT 357 Health, Healing, and Culture 3 O

Cross-cultural perspective on illness, health, medicine, and the body; medical pluralism; biomedicalization; illness and moral reasoning; local and global political economies of health and healing; globalization and medicine. Applied medical anthropology.

ANT 363 Anthropology of Family Life 3 Y

Crosslisted with: WGS 363

Historical and cross-cultural study of forms of family and domestic organization, marriage, status and sex roles, ideals, and customs of family life.

ANT 365 Sexual Attraction in Cross-cultural Perspective 3 E

Sexual attractiveness across cultures. Cultural differences as well as cultural universals.

ANT 367 Gender in a Globalizing World 3 IR

Crosslisted with: GEO 367, WGS 367

Economic and cultural processes of globalization as they affect different groups of men, women, and households; including gender and work, gender and the media, and redefinitions of masculinity and femininity across the globe.

ANT 372 Issues in Intercultural Conflict and Communications 3 IR

Effects of various cognitive and value orientations on cross-cultural communication, particularly in the Third World. Impact of mass media, proselytization, dissimulation, tourism, and foreign aid on indigenous orientations and on communication.

ANT 373 Magic and Religion 3 S

Crosscultural study of magical and religious behavior, ritual, and belief systems in simple and complex societies. Specialists and their craft: shamans, priests. Curing, possession, witchcraft. Millennial and counterculture movements. Religious ideologies and innovations.

ANT 376 Folklore 3 SI

Folklore as a cultural system expressing the value orientations of nonliterate, illiterate, and minority populations. Various genres of folklore (myth, song, art) and the folklore of several specific societies.

ANT 377 Quilts and Community 3 Y

Explores role of quilts and quilting communities. Discussion, films, exploration of quilts and their makers-and communities that result. Class learns quilt making process. No sewing experience required.

ANT 382 Health in the Middle East 3 IR

Crosslisted with: HTW 382, MES 382

Surveys major cultural, biological and environmental features of the Middle East and relates them to aspects of health including infectious disease, chronic disease, reproductive health, population, war, poverty and globalization.

PREREQ: ANT 111 OR ANT 121.

ANT 390 Independent Study 1-6 S

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

ANT 400 Selected Topics 1-3 SI

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester R

ANT 404 Family and Gender in Renaissance Italy 3

Crosslisted with: HST 404, WGS 404

Historical and interdisciplinary exploration of life stages, rites of passage, marriage, family, social life, sodomy, prostitution, career options, and alternate life strategies as illustrated by case studies. Offered only in Florence.

ANT 405 Conservation and Management Protected Areas: South Africa-OTS 4 IR

Crosslisted with: GEO 405

Taught in South Africa through the Organization for Tropical Studies program. Analyze management of wildlife and natural resources within ecological, political, social, historical, and economic context of South Africa.

ANT 406 History and Culture of South Africa OTS 4

Taught in South Africa through OTS program. Human history of South Africa. Range of cultural, social aspects of current South African society. Origin and maintenance of cultural diversity of region, archaeological records, early migration patterns.

ANT 407 Environment and Policy in the Tropics OTS 4

Taught in Costa Rica through OTS program. Issues conservation biology and policy: habitat degradation and fragmentation, design of nature reserves, land-use planning, agro ecosystems, environmental economics, and conservation ethics.

ANT 408 The Practice of Eros: A History of Sexuality in Europe (1400-1800) 3

Crosslisted with: HST 408, WGS 408

Authorized and "alternative" sexuality in Europe 15th to 18th centuries (especially Italy, France, and England.) "Licit love" (courtship, marriage, conjugal relations) as opposed to "illicit unions" (adultery, rape, prostitution, bestiality, homosexuality, lesbianism). Offered only in Florence.

ANT 409 A History of Witchcraft 3

Crosslisted with: HST 409, REL 409, WGS 409

History of witchcraft from various perspectives: its intellectual roots, the causes and dynamics of the witch-hunt, and the beliefs and self-perceptions of those who were called "witches". Offered only in Florence.

ANT 414 Cities, Spaces and Power 3 O

Double Numbered with: ANT 614

Processes of urbanization, migration, adjustments of peasants in cities, ethnic and cultural variation in urban areas. Cultural differences in industrial development. Uses of applied anthropology in urban situations. Sometimes offered abroad.

ANT 415 Culture & Personality 3 IR

The person-in-culture and the function of culture in personality formation. Cross-cultural problems of child rearing, learning and education, life-cycle patterns, cultural conditioning, normality, and deviance. The individual and cultural milieu.

ANT 417 Economic Anthropology 3 IR

Survey of primitive modes of production: major adaptive strategies (collecting, hunting, horticulture, and pastoralism), division of labor, and ecological influences impinging on these productive techniques.

ANT 422 Etruscans and Romans: Ancient Art and Society in Italy 3 Y

Crosslisted with: HOA 303

Explores art and society of ancient Italy from ca. 1000 B.C. to A.D. 138, with special emphasis on the early Etruscans through Rome under Hadrian. Requires previous course in art history. Offered only in Florence.

ANT 424 Negotiation: Theory and Practice 3 SS

Double Numbered with: ANT 624

Negotiation skills for resolving differences effectively and achieving mutually satisfying outcomes. Position based versus interest based negotiation. Advanced techniques of communication such as chunking, reframing, anchoring, metaphor and rapport to obtain negotiation outcomes of excellence. Additional work required of graduate students.

ANT 427 Brazil: Anthropological Perspectives 3 IR

Double Numbered with: ANT 627

History and culture of Brazil; indigenous populations; Afro-Brazilians; race and ethnic relations; development; kinship; gender; religion; urbanization; politics; nationalism; globalization. Additional work required of graduate students.

ANT 428 Transformation of Eastern Europe 3 IR

Double Numbered with: ANT 629

Change and continuity after the demise of communism as experienced by ordinary citizens. Transformations in agriculture, industry, social, and political institutions; the rise of ethnic nationalism; and ethnic conflict. Additional work required of graduate students.

ANT 429 Cultures of the Iberian Peninsula 3 Y

Taught in Spanish. A general cultural introduction to the peoples who populated Spain and Portugal. Emphasis on those living in the Iberian peninsula before Roman and Carthaginian settlement and their influence on future generations. Field study tours to archeological and historic sites. Offered only in Madrid.

ANT 431 Human Variation 3 IR

ANT 433 Human Skeletal Anatomy 3 Y

Introduction to methods and techniques in human osteology and anatomy (emphasis varies), which are basic in applied physical techniques involving measuring humans (anthropometrics). Some statistical analysis taught.

ANT 434 Anthropology of Death 3 E

Double Numbered with: ANT 634

Death in anthropological perspective. Survey of the many ways death has entered into the work of archaeologists, biological anthropologists, ethnographers and social theorists.

ANT 436 Forensic Anthropology 3 E

Double Numbered with: ANT 636

Surveys the application of skeletal biology and archaeology to the medico-legal field. Techniques of analysis, interpretation, and evaluation will be emphasized, and domestic and international case studies will be used to illustrate application.

ANT 440 Topics in African Archaeology 3 SI

Double Numbered with: ANT 640

Topics might include West African Archaeology, Iron Age and Stone Age Africa, the Nile Valley, and East and Southern Africa. Additional work required of graduate students. PREREQ: ANT 141 OR 145. R

ANT 442 Methods in Archaeology 3 O

Double Numbered with: ANT 642

Formulation and conduct of archaeological research with a focus on field and laboratory methods used to obtain and analyze data. Survey techniques, excavation strategies, archaeological classification, and data base management. Additional work required of graduate students. PREREQ: ANT 141 OR 145.

ANT 443 Field Methods in Archaeology 6 SS

Supervised training in the excavation of a prehistoric archaeological site, including cataloging and accessioning of artifacts. R

ANT 444 Laboratory Analysis in Archaeology 3 E

Double Numbered with: ANT 644

Introduction to archaeo-logical materials analysis, artifact-classification systems, processing of data, materials analyses (ceramic, lithic, etc.). Conservation and curation of collections. Extra work required of graduate students. PREREQ: ANT 141, ANT 145.

ANT 445 Public Policy and Archaeology 3 IR

Crosslisted with: NAT 445; Double Numbered with: ANT 645

Proactive critique of public policy and implementation efforts to preserve and protect archaeological and historical sites and resources. Additional work required of graduate students.

ANT 446 Caribbean Archaeology 3 IR

Double Numbered with: ANT 646

Caribbean archaeology from the region's early prehistory through the historic period. Cultural diversity, indigenous societies, Hispanic and colonial impacts, and the African Diaspora. PREREQ: ANT 141 OR 145.

ANT 447 Archaeology of North America 3 IR

Crosslisted with: NAT 447; Double Numbered with: ANT 647

Introduction to the regional prehistory of North America north of Mexico, from the late Pleistocene until European contact. Adaptation of prehistoric human populations to their ecosystems. Additional work required of graduate students. PREREQ: ANT 141, ANT 145.

ANT 450 Undergrad Research Prog 1-6 S R

ANT 452 Anthropology and Public Policy 3 IR

Double Numbered with: ANT 652

Cultural aspects of the development and implementation of public policy. Emphasizing decision making methodologies and ethnographic studies of the consequences of implemented policies. Additional work required of graduate students.

ANT 455 Culture and AIDS 3 IR

Crosslisted with: WGS 455; Double Numbered with: ANT 655

Relationship between AIDS and cultures in which it spreads. Cultural practices and sexuality and social effects of widespread AIDS, including healthcare in Asia, Africa, Latin America, and USA. Additional work required of graduate students.

ANT 456 Representations of Indigenous Peoples in Popular Culture 3 IR

Crosslisted with: NAT 456; Double Numbered with: ANT 656

Contested images used by colonizers and other non-indigenous people to represent Native Americans and other indigenous peoples. How indigenous people represent themselves in a variety of media. Additional work required of graduate students.

ANT 458 Anthropology of Social Change 3 Y

Introduces the basic concepts used by anthropologists to study change. Cultural heterogeneity of people of the Iberian peninsula, used as a means to understand social and cultural change in contemporary Spain and Portugal. Some themes examined include culture contact and acculturation, planned and nondirected change, and role of individual. Offered only in Madrid.

ANT 459 Contemporary Native North American Issues 3 IR

Crosslisted with: NAT 459; Double Numbered with: ANT 659

Contemporary issues including federal Indian policy, population controls, fishing rights, religious freedom, land disputes, gaming, repatriation, environmental colonialism, and Native American artistic response. Additional work required of graduate students.

ANT 461 Museums and Native Americans 3 IR

Crosslisted with: NAT 461; Double Numbered with: ANT 661

The contested relationships among Native North Americans and museums from earliest contact until the present. Topics include: "salvage" ethnography, collecting practices, exhibition, and recent shifts in power. Additional work required of graduate students.

ANT 462 Culture and Reproductive Health and Medicine 3 IR

Crosslisted with: HTW 462, WGS 462; Double Numbered with: ANT 662

Cultural anthropological approaches to cross-cultural variations in reproductive practices (pregnancy, childbirth, infertility, etc.) Impact of globalization, biomedicalization, international development on reproduction and reproductive health. Medical anthropology and gender studies.

ANT 463 Global Health 3 IR

Crosslisted with: HTW 463; Double Numbered with: ANT 663

Global health in anthropological perspective. Examines how culture affects people's experience and response to morbidity and mortality. Considers topics like gender and health, reproductive health, infectious disease, health and inequality and health and war.

ANT 465 Medical Anthropology 3 IR

Double Numbered with: ANT 665

Critical aspects of health care delivery in the United States. Curing in primitive societies. Problems of introducing Western medicine to other cultures. Additional work required of graduate students.

ANT 466 Culture and Sexual Behavior 3 IR

Double Numbered with: ANT 666

Cross-cultural patterns of dating and courtship, sexuality, marriage, fertility, and divorce from biosocial and medical perspectives. Additional work required of graduate students.

ANT 467 Culture and Mental Disorders 3 IR

Double Numbered with: ANT 667

Theories portraying mental disorders as social roles Goffman, Szasz, Laing. Synthesis of social role and biogenetic theories performed and applied cross-culturally. Additional work required of graduate students.

ANT 468 Middle East in Anthropological Perspective 3 IR

Crosslisted with: IRP 468, MES 468; Double Numbered with: ANT 668

Anthropology of the social, cultural, geographical, and political realities of the Middle East. Additional work required of graduate students.

ANT 470 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

ANT 471 Religion and Society in Brazil 3-4 IR

Crosslisted with: REL 471

Role of religion in society; religions of Brazil, including Catholicism, liberation theology, afro-religions. Spring break field stay in Rio de Janeiro; methods of study; preparation of research proposal.

ANT 472 Language, Culture, and Society 3 Y

Crosslisted with: LIN 472, WGS 472; Double Numbered with: ANT 672

Cross-cultural survey of the role of language in culture and society, including cognition and language usage along the dimensions of class, gender, race, ethnicity, and social status.

ANT 474 Culture and Folklore 3 IR

Crosslisted with: WGS 474; Double Numbered with: ANT 674

Ways in which folklore (oral and material traditions, including personal narratives), reflects key cultural ideas such as gender, ethnicity, and history. Analytical methods for examining folk traditions. Additional work required of graduate students.

ANT 475 Culture and Disputing 3 IR

Double Numbered with: ANT 675

Explores modalities of disputing, dispute resolution, and conflict management in cross-cultural perspective. Decision making in meetings and organizations, negotiation, mediation, intercultural negotiation, and third party interventions. Ethnographic materials are drawn from many cultures. Additional work required of graduate students. PREREQ: ANT 477/677.

ANT 477 Culture and Conflict 3 IR

Double Numbered with: ANT 677

An overview of conflict in cross-cultural perspective. Covers a variety of approaches to using cultural analysis in the study of conflict and reviews case studies of specific conflicts. Additional work required of graduate students.

ANT 478 Language & Gender 3 IR

Crosslisted with: WGS 478; Double Numbered with: ANT 678

The role of language in the construction of gender/sex, using works of linguistic anthropologists, sociolinguists, and feminists. Children's learning of gendered language; the intersection of gender, class, and language; gender and political economy.

ANT 479 Anthropology of Global Transformations 3 IR

Double Numbered with: ANT 679

Impact of global processes, including industrialization, capitalist expansion, transnational migration, environmental change, and international tourism on the daily lives of men and women in Third World contexts. Additional work required of graduate students.

ANT 481 Ethnographic Techniques 3 O

Research methods and techniques in cultural anthropology. Participant observation, interviewing, establishing rapport, recording field data, use of photographic and recording equipment, etc. Also offered regularly abroad.

ANT 482 Life Histories/Narratives 3 IR

Double Numbered with: ANT 682

Evaluation of personal narratives (fieldwork memoirs, reflexive writings), oral histories and testimonials of respondents, a means of personalizing ethnographic discourse, giving more direct voice to respondents, and increasing multivocality. Issues of reflexivity, subjectivity, authority. Additional work required of graduate students.

ANT 483 Social Movement Theory 3 IR

Double Numbered with: ANT 683

Theoretical approaches to analysis of social movements including Marxist and other Utopian traditions of social analysis, rational choice and resource mobilization models, new social movement theory, and Gramscian analysis of power and resistance. Additional work required of graduate students.

ANT 484 Social Movement Research Methods 3 IR

Double Numbered with: ANT 684

A range of research methodologies relevant to the study of social movements. Stimulates critical thinking about these methodologies' ethical implications. Students develop proposals for projects carried out the following semester.

ANT 485 Social Movement Internship 3 IR

Double Numbered with: ANT 685

A hands-on experience of the everyday challenges of social movement organizations, and to involve students in a project useful both to the organization and to the development of improved theory about social movements. Additional work required of graduate students. PREREQ: ANT 483/683, ANT 484/684.

ANT 490 Independent Study 1-6 S

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

ANT 494 Underground Railroad 3 SI

Crosslisted with: AAS 434, HST 434; Double Numbered with: ANT 694

Myth and history of the Underground in the context of African American freedom efforts. Emphasis on events, personalities, and sites in upstate New York. Student field research and exploration of archival and Internet resources. Additional work required of graduate students.

ANT 499 Honors Thesis 3-6 S

R

ANT 500 Selected Topics 1-3 SI

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ANT 523 Culture Change in Latin America 3 Y

Crosslisted with: LAS 523

Effects of urbanization, industrialization, population increases, international politics, and modernization upon primitive and peasant populations of Latin America.

ANT 553 Women and Social Change 3 E

Crosslisted with: WGS 553

Function of changes in women's roles in sociocultural urbanization, revolution, and modernization. Women in Third World countries compared to women in industrialized countries.

ANT 571 Topics in Sociolinguistics 3 SI

Crosslisted with: LIN 571, SOC 571

Functions of language in society. Geographical, socioeconomic, and male-female differentiation. Functions of various types of speech events. Requirements include a research project. R1, 6 credits maximum

ANT 574 Anthropology and Physical Design 3 E

Interrelationship of social and spatial organization in traditional and modern societies. Nonverbal communication: use of space, territoriality, and impact of physical design on human behavior.

Economics

ECN 101 Introductory Microeconomics 3 IR

Introduction to microeconomics. Consumer demand, theory of production, markets and prices, social welfare, and related topics. Credit is given for either ECN 101, 102 or ECN 203.

ECN 102 Introductory Macroeconomics 3 IR

Introduction to concepts and methods of economic analysis. Emphasis on such macroeconomic topics as gross domestic product, unemployment, money, and theory of national income. Credit is given for either ECN 101, 102 or ECN 203.

ECN 203 Economic Ideas and Issues 3 S
Foundation of modern Western economic thought. The model economists have built on this foundation as applied to current issues facing individuals and society. Credit is given for either ECN 203 or ECN 101, 102 or ECN 109.

ECN 258 Poverty and Discrimination in America 3 IR

Crosslisted with: WGS 258
Nature and causes of inequality, poverty, and discrimination in rural and urban America. Income maintenance, employment, training, education, and other antipoverty programs; antidiscrimination and equal opportunity policies. Students may not receive credit for both ECN/WGS 258 and ECN/WGS 358.

ECN 270 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

ECN 290 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

ECN 300 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ECN 301 Intermediate Microeconomics 3 S

Concepts and tools for the analysis of the behavior of consumers and firms, consumption decisions, market structures, and general equilibrium. Pricing, production, purchasing, and employment policies. Both ECN 301 and 311 cannot be counted toward the major/minor. Credit cannot be given for ECN 301 after completing ECN 311. Quantitative skills requirements of liberal arts core recommended.
PREREQ: ECN 203.

ECN 302 Intermediate Macroeconomics 3 S

National product and income concepts, measurements, and relationships; interrelationships of the major segments of the national economy; forces affecting the general level of economic activity. Quantitative skills requirements of liberal arts core recommended.
PREREQ: ECN 203.

ECN 310 Special Topics In Economics 3 IR

Various special topics of economic issues offered as available.
PREREQ: ECN 203. R

ECN 311 Intermediate Mathematical Microeconomics 3 Y

Covers the same topics as covered in ECN 301, but the presentation is more mathematical than ECN 301. Both ECN 301 and 311 cannot be counted towards the major/minor. Credit cannot be given for ECN 301 after completing ECN 311.
PREREQ: ECN 203, MAT 284 OR 285 OR 295.

ECN 325 Economics and Gender 3 IR

Crosslisted with: WGS 325
Economic issues examined within a gender sensitive context. Includes the economics of family, the economics of marriage, and labor market discrimination and segregation.

ECN 355 Economics of Health and Medical Care 3 IR

Application of economics concepts to the study of health care, especially the U.S. system. Topics include the nature of the commodity health care; health production functions; markets; financing; behavior of providers; public policy; reform proposals.
PREREQ: ECN 203.

ECN 358 Economics of US Poverty and Discrimination 3 Y

Crosslisted with: WGS 358
Economic analysis of inequality, poverty, and discrimination, as applied to USA. Income maintenance, employment, training, education, and other antipoverty programs; antidiscrimination and equal opportunity policies. Students may not receive credit for both ECN/WGS 258 and ECN/WGS 358.
PREREQ: ECN 203.

ECN 361 Economics of European Integration 3

Origins and history of European Union integration, integration of trade, financial and monetary policies, the Euro, and EU external trade relations. Offered only in Florence.

ECN 362 Globalization Development and Environment 3 S

Offered only in London. Differing perspectives on changing global economy and nature of modern state. Key ideas regarding development through experiences of developing countries in Asia and Africa.

ECN 363 Economic Development of China 3 S

Offered only in Hong Kong. Examines the economic development of China since 1949, including impact of such policies as the Great Leap Forward, the Cultural Revolution, Deng's Open Door commitment, and current strategies.

ECN 364 International Economic Relations 3 S

Offered only in Hong Kong. Economic links binding countries and similar political entities. Topics include development of global trade regime, impacts of globalization, dynamics of financial crisis, rise of transnational corporations.
PREREQ: ECN 203 OR ECN 101, 102..

ECN 365 The World Economy 3 S

Non-technical introduction to analysis of international economic issues. Protectionism, the multinational firm, the debt crisis, international macroeconomic policy coordination, and European integration. May not be used to satisfy the economics major upper-division elective requirement.
PREREQ: ECN 203.

ECN 366 Economic Policies of the European Union 3 S

Offered only in Strasbourg. European economy, with central focus on economic principles underlying decisions to create and extend scope of European Community and on economic policies EU has followed since creation.

ECN 373 Industrial Organization & Policy 3 IR

Analysis of structure, conduct, and performance of industry. Experience with antitrust laws and trade regulations. Case studies of specific industries.
PREREQ: 203.

ECN 390 Independent Study 1-6

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

ECN 400 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ECN 410 Topics in Economic Applications 3 IR

Various topics in economic policy and applications. R

ECN 431 Public Economics 3 Y

Theory of the public sector. Government expenditures, revenue, and debt. Intergovernmental fiscal relations. Government contributions to stabilization and growth. Interaction of public and private sectors.
PREREQ: ECN 301 OR 311.

ECN 435 State and Local Public Finance 3 IR

Economic analysis of state and local government structures. Description and equity-efficiency-yield implications of state and local government tax systems. Determinants and consequences of state and local government expenditures. Fiscal federalism.
PREREQ: ECN 301 OR 311.

ECN 441 Urban Economics 3 Y

Theoretical and empirical analyses of growth, structure, and resource allocation in urban regions. Selected urban problems: housing and housing finance; poverty; transportational neighborhood degradation; and financing local public services.
PREREQ: ECN 301 OR 311.

ECN 451 Labor Economics 3 Y

Contemporary theories and issues of public policy concerning labor supply and demand, wage determination, disincentive effects of public transfer payments (e.g. welfare), unemployment, human capital, and unions. PREREQ: ECN 301.

ECN 465 International Trade Theory and Policy 3 Y

Economic causes and consequences of international trade. Models of trade, gains from trade, tariffs and other controls on trade, and international institutions guiding the trading systems. PREREQ: ECN 301 OR 311.

ECN 470 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

ECN 481 Introduction Money & Banking 3 Y

Financial instruments and structure: commercial banking organization, operation and control of the banking system. Federal Reserve System. Monetary policy and economic stability. PREREQ: ECN 302.

ECN 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

ECN 495 Distinction Thesis Seminar in Economics I 3 Y

First semester in a year-long course for economics undergraduate thesis students who are oriented to professional economics research and guided as they define their thesis projects. Senior economic students only. Permission from Instructor.

ECN 496 Distinction Thesis Seminar in Economics II 3 Y

Second semester in a year-long course for economics undergraduate thesis students who will present ongoing research, constructively engage the work of other thesis writers, and work in cooperation with a faculty mentor to complete research. Senior economic students only. Permission from Instructor.

ECN 499 Honors Thesis 3 S

A thesis in selected aspects of economic analysis. Senior economics honors students only.

ECN 500 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ECN 505 Mathematical Economics 3 Y

Introduction to use of basic mathematical techniques in economic analysis. PREREQ: MAT 284 OR 286 OR 296, ECN 301 OR 311.

ECN 510 Special Topics in Economics 3 IR

Various special topics of economics issues offered as available. PREREQ: ECN 301, 311, OR 601. R5, 18 credits maximum

ECN 521 Economic Statistics 3 S

Statistical methods applied to economics. Conventional descriptive statistics, conceptual and measurement problems peculiar to economics. Analytical statistics, including time-series analysis, elementary theory of probability and statistical inference, correlation and regression analysis. Nonparametric methods. This course is not suitable for students who have taken six credits of statistics to fulfill their quantitative skills requirement. Quantitative skill requirements of liberal arts core is recommended.

ECN 522 Econometric Methods 3 Y

Statistical procedures. Problems of estimating parameters in regression models of economic behavior. PREREQ: ECN 521, ECN 301 OR 311.

ECN 525 Economics and Gender 3 Y

Crosslisted with: WGS 525 Offered only in Strasbourg. European economy, with central focus on economic principles underlying decisions to create and extend scope of European Community and on economic policies EU has followed since creation.

ECN 566 International Macroeconomics and Finance 3 Y

Monetary, fiscal, and regulatory consequences of mushrooming international financial markets including equities, bonds and other securities, commodity and options contracts, and bank deposits and loans. PREREQ: ECN 302.

ECN 575 Law and Market Economy 3 IR

Use of economic tools in the analysis of law and legal regulations, including use of economic incentives to analyze evolution of legal institutions and impact of these institutions on economic dynamics. PREREQ: ECN 301 OR 311, ECN 302.

Geography**GEO 103 America and the Global Environment 3 S**

Relationship between people and their environment. Population change, natural resource use, sustainability. Associated environmental problems. Historical developments and future possibilities.

GEO 105 World Geography 3 IR

World geography, people's relation to the land. Major concepts of geography for nonspecialists.

GEO 155 The Natural Environment 3 S

Patterns of the physical phenomena at and near the surface of the earth. Surface configuration, climate, vegetation, and soil and their areal interrelationships.

GEO 171 Human Geographies 3 S

An integrative overview to human geography. Topics include human-environmental relations, demographic change, cultural landscape; urban and agricultural land use and economic restructuring.

GEO 200 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. * R

GEO 203 Society and the Politics of Nature 3 IR

Biophysical and social contexts of environmental problems and decision making. U.S. and international issues considered, linking local, regional, and global scales of analysis. Case examples include water management, energy policy, global warming, sustainable development.

GEO 215 Global Environmental Change 3 Y

Focussing on physical processes and patterns of environmental change, changes occurring as a result of human activities, and the social consequences of environmental change.

GEO 219 American Diversity and Unity (Honors) 3 Y

Ethnic and racial interactions that influenced American culture's present form, both visible (i.e., landscape) and invisible. Contemporary sociocultural changes in the frontier/West/Alaska, southern California, and the South. For honors students.

GEO 270 Experience Credit 1-6 IR

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

GEO 272 World Cultures 3 Y

The globalization of culture and the persistence of local cultures around the world. Case studies from different regions of the world examine geographical processes that shape ways of life.

GEO 273 World Political Economy 3 Y

Survey of emergence of an integrated global political economy from the sixteenth century to the present. Creation of "developed" and "under-developed" regions. Case studies of the impact of global transformations on regions and institutions.

GEO 300 Selected Topics 1-3 Y

Selected Topics R

GEO 311 The New North Americas 3 E

Critical study of social, political, economic, and cultural processes across contemporary North America. Focus on geographies of globalization, transnationalism, economic restructuring, and new social movements, with particular attention to race/ethnicity, gender, power, and resistance.

GEO 313 The United States 3 E

Cultural, social, and regional approaches toward understanding the geography of the United States. American national identity and cultural landscape, regional consumer behavior patterns, and current regional issues.

GEO 314 Hazardous Geographic Environments 3 Y

Mapping and public policy for natural and technological hazards. Risk perception, geographic modeling, and vulnerability assessment. Mitigation measures, risk mapping, land-use restrictions, and emergency planning.

GEO 316 River Environments 3 Y

Characteristics of river environments, including hydroclimatology, floods, landforms, vegetation, human impacts, and resource management issues.

GEO 317 Geography of Mountain Environments 3 O

Physical and human geography of mountain regions. Focus on tectonic, geomorphological, biogeographical, and climatic processes; resource use problems and patterns, conservation, and development; environmental hazards.

GEO 318 Tropical Environments 3 E

Tropical ecosystems and their human dimensions, with an emphasis on the Neotropics. Distribution, structure, and function of natural systems; human-environment interactions; management and significance.

GEO 319 Cold Environments 3 O

An exploration of environmental processes, human environment interactions, and environmental problems in the cold regions of the world, emphasizing the Arctic.

GEO 321 Latin American Development: Spatial Aspects 3 IR

Crosslisted with: LAS 321
Spatial dimensions of development process in Latin America since the 1930s in a variety of contexts and at several scales. Variety of spatial models that may be applied.

GEO 325 Colonialism in Latin America 3 S

Processes of geographical change in Latin America from the sixteenth to the early twentieth century. Reconstruction of geographies of Latin America at critical periods.

GEO 326 The Geography of Climate and Weather 3 Y

Atmospheric dynamics emphasizing spatial distributions of energy and moisture at several scales. Weather phenomena, regional climates, and human-induced perturbations and modifications of climate systems. Land-use change, climate change, climate change and urban climatologies.
PREREQ: GEO 155 OR GOL 101.

GEO 327 Geography of Coastal Environments 3 E

Natural environmental processes in the coastal zone. Emphasis on coastal transformation due to climate variability and change, estuarine pollution and habitat destruction, human modification; and subsequent associated societal hazards and implications.
PREREQ: GEO 155.

GEO 331 The European Union 3 Y

Geo-political foundations, post World War II economic and political developments, European community institutions, integration and external relations.

GEO 347 Art and Environment in American Culture Since 1800 3

Crosslisted with: HOA 482
Visual arts and environmental concern in the U.S. from the early national period to the present. Emphasizing diversity of artists and forms, the changing cultural constructions of nature, and tracing an ecological tradition in art.

GEO 353 Geographies of Environmental Justice 3 E

The relationship between environmental quality and social justice. Spatial aspects of unequal distribution of environmental risks and benefits. Case studies drawn from urban rural examples in both the United States and the Third World.

GEO 354 American Environmental History and Geography 3 Y

Crosslisted with: HST 384
Relationship between Americans and the natural environment from the colonial period to the present. Ecological imperialism, technology and nature, resource management conflicts, urban environments, development of conservation and environmentalism.

GEO 356 Environmental Ideas and Policy 3 Y

Fundamental ideas relating to underlying evolution and implementation of environmental policy in the USA.

GEO 361 Global Economic Geography 3 IR

World patterns of production and consumption in the context of regional resources and population problems. Impact of technological change on geographic organization of economic systems. Concepts in economic geography and their policy implications.

GEO 362 The European City 3 Y

Historical development of Europe through its cities. Growth and form of European cities; how they are governed and planned.

GEO 363 Cities of North America 3 Y

Urban images and sense of place. Urbanization and urban growth. Urban functions and form. Social patterns, change, and transformations of urban landscapes. Housing, neighborhood, and land-use change.

GEO 367 Gender in a Globalizing World 3 IR

Crosslisted with: ANT 367, WGS 367
Economic and cultural processes of globalization as they affect different groups of men, women, and households; including gender and work, gender and the media, and redefinitions of masculinity and femininity across the globe.

GEO 372 Political Geography 3 Y

Geographic analysis of the political process at a variety of spatial scales - international, intra-national, and urban. Origins of territorial organization and conflicts over access to and use of space.

GEO 381 Cartographic Design 4 Y

Basic elements of cartographic design, including symbolization, figure-ground relationships, color theory, and typography. Effect of scale and projection on design process. Computer-assisted methods of cartographic design, including graphic representations for geographic information systems.

GEO 383 Geographic Information Systems 3-4 S

Double Numbered with: GEO 683
Basic concepts in spatial data handling. Algorithms and data structures for Geographic Information Systems (GIS). Demonstration of power, potential, and limitations of GIS. Graduate students register for three credits. Undergraduate students register for four credits with required laboratory work.

GEO 386 Quantitative Geographic Analysis 3 Y

Descriptive and inferential statistics for use in geo-referenced data, spatial autocorrelation, and geostatistics. Geographic examples. Weekly labs.
PREREQ: STT 101, MAT 121, MAT 183 AND MAT 221.

GEO 388 Geographic Information and Society 3 O

Double Numbered with: GEO 688
Effects of geographic information technologies on governments, communities, and individuals. Mapping as an information industry, a political process, a surveillance technology, and a communication medium. Copyright, access, hazard management, national defense, public participation, and privacy.

GEO 400 Selected Topics 1-3 Y

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

GEO 405 Conservation and Management Protected Areas: South Africa-OTS 4

Crosslisted with: ANT 405
Taught in South Africa through the Organization for Tropical Studies program. Analyze management of wildlife and natural resources within ecological, political, social, historical, and economic context of South Africa.

GEO 428 Auld Reekie: Scotland and the Road to London 3 IR

Field studies seminar examining popular and elite cultural forms that organize life in Britain. Emphasizes interaction with local culture environments to explore contemporary identities and how and why identity and attitude are formed. Offered in London only.

GEO 440 Race and Space 3 O

Critical geographic study of race and racism as formative aspects of sociocultural, economic and political processes. Focus on race/racism's operations across scales, with particular attention to gender, class, culture, colonialism, citizenship, power, and resistance.

GEO 463 Geography of Homelessness 3 E

Examines the roots and consequences of homelessness in contemporary cities. Focus on United States and globalization of American-style homelessness. Explores role of space and spatial relationships in shaping homeless people's lives and homeless policy.

GEO 470 Experience Credit 1-6 IR

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

GEO 482 Environmental Remote Sensing 3 Y

Principles and environmental applications of remote sensing. Uses and limitations of remotely-sensed data; typical image processing operations and analyses; laboratory work and individual term project using remotely-sensed imagery.

GEO 490 Independent Study 1-6 IR

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

GEO 491 Senior Seminar in Geography 3 Y

Research and presentations in a selected field of geography. Topic announced each time offered. Primarily for advanced geography majors and minors. PREREQ: GEO 155, 272.. R

GEO 492 Senior Thesis Seminar 3 Y

Seminar for senior geography majors graduating with distinction. Individualized and small-group mentoring and directed research.

GEO 499 Honors Thesis in Geography 3 S

GEO 500 Topics in Geography 1-3 Y

In-depth studies of selected topics. R

GEO 510 Research on North America 1-3 IR

Reading and special work R

GEO 520 Research on Latin America 1-3 IR

Crosslisted with: LAS 520
Reading and special work R

GEO 530 Research on Africa 1-3 IR
Reading and special work. R

GEO 537 Environmental Policy in a Development Context 3 S

Crosslisted with: LAS 537
Offered only in Santiago. Examines historical/intellectual/ material processes that transformed nature into natural resources to be exploited; ways global political process has guided global responses to environmental problems; Chilean environmental policy over the last 20 years.

GEO 538 Research on Europe 1-3 IR
Reading and special work. R

GEO 540 Research on Southern and Eastern Asia 1-3 IR
Reading and special work. R

GEO 550 Research on Physical Geography 1-3 IR
Reading and special work. R

GEO 555 Biogeography 3 E

Exploration of the environmental factors that influence the distribution of organisms. Emphasis is on plant distributions and dynamics, and consideration includes both natural and human factors. PREREQ: GEO 155.

GEO 558 Development and Sustainability 3 Y

Critical analysis of international development and sustainability. Focuses on the complex political, economic, cultural, and ecological processes involved in development discourse and practice. Readings and case studies drawn from Latin America, Africa, and Asia.

GEO 560 Research: Economic Geography 1-3 IR

Reading and special work. R

GEO 561 Global Economic Geography 3 IR

Globalization, world economic processes, international development, and policy issues; emphasizing geographical perspectives.

GEO 563 The Urban Condition 3 Y

Contemporary cities. Economic growth and decline. Social polarization. Construction of the built environment. Case studies from around the world.

GEO 564 Urban Historical Geography 3 O

Cities in western civilization through classical, medieval, mercantile, and industrial eras to 1945. Historical geographic meanings of urbanism; social construction of the built environment; and relationships between power, social justice, and urban spatial form.

GEO 570 Research on Cultural Geography 1-3 IR

Reading and special work. R

GEO 572 Landscape Interpretation in Cultural Geography 3 SI

Contemporary theories and methods. Traditional, historical-materialist, postmodernism, and post-structuralist approaches to landscape. Additional work required of graduate students.

GEO 573 The Geography of Capital 3 O

In-depth reading of Marx's Capital to understand: (a) the relationship between political economy and the geographical landscape; (b) the formative role of "Capital" in contemporary geographic theory.

GEO 576 Gender, Place, and Space 3 IR

Crosslisted with: WGS 576
Contemporary debates in feminist geography on the gendered construction of space and the spatial construction of gender.

GEO 580 Research on Cartographic Techniques 1-12 IR

Reading and special work. R

GEO 583 Environmental Geographical Information Science 3 Y

Data types, collection techniques, and processing strategies in natural resource survey. Monitoring and environmental sciences. Basic concepts of GIS data structures and algorithms. Data quality issues. User requirements, management aspects, and implementation experience. PREREQ: GEO 383.

GEO 595 Geography and the Internet 3 Y

An introduction to the structure and functions of the Internet and its impact on spatial relations from the global to the local. A detailed examination of the World Wide Web and practical training in web page design.

History

HST 101 American History to 1865 3 Y

Founding and development of institutions. The Revolution and the new nation. Problems of growth and sectionalism. Challenge to the union.

HST 102 American History Since 1865 3 Y

Reconstruction. Industrialization and its effects. Emergence as a world power. Economic and social problems, reforms. Global war and global responsibilities.

HST 109 American Political Culture (Honors) 3 IR

Shaping of American politics and political institutions by economic, social, demographic, and diplomatic factors: 1607 to 1789, Americanization of European institutions; 1789 to 1898, democratization and the challenge of urbanization and industrialization; 1898 to present, toward a postindustrial order.

HST 111 Early Modern Europe, 1350-1815 3 Y

Major characteristics of European political, social, and cultural life from Middle Ages to advent of democratic revolutions.

HST 112 Modern Europe: Napoleon to the Present 3 Y

European lives and experiences in the age of industrialization, urbanization, and mass politics. World wars, fascism, the Russian Revolution, empires, Europe in the post-World War II era.

HST 145 Introduction to Historical Archaeology 3 Y

Crosslisted with: ANT 145

Role of history and archaeology in our understanding of 17th- to 19th-century Europe, Africa, and America. Historical archeology as a mechanism to critique perceptions of the past. Firsthand record of ethnic groups and cultural settings not recorded in writing.

HST 180 International Course 1-6

Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the S.U. academic department to assign the appropriate course level, title, and grade for the student's transcript. R

HST 200 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

HST 201 Research Seminar in History 3 IR

Introduction to the excitement and techniques of original research. Each seminar begins with introductory readings in a particular area of history; each student researches a question in original sources and presents the results in one or more essays.

HST 210 The Ancient World 3 Y

The Ancient Mediterranean emphasizing major political, cultural, religious, and social developments. The Near East, Classical Greece, Hellenistic Civilization, Roman Republic, Roman Empire up to the fourth century A.D. May not be repeated for credit.

HST 211 Medieval and Renaissance Europe 3 Y

Origins of the state and modern economic and social structures from the ninth to the 16th century.

HST 212 Religion in Medieval and Reformation Europe 3 Y

History of both popular and official religions in Europe from age of Charlemagne to dissolution of unity in the Reformation.

HST 215 Modern Business History 3 IR

History of the modern business firm in America, Europe, and Asia. General trends and specific firm histories from railroads, to automobiles, to big business in wartime, to computers.

HST 221 Social History of American Education (Honors) 3 IR

Crosslisted with: CFE 221

History of educational goals, methods, and institutions throughout changes in population, economy, and social order. Social and economic consequences of Americans' educational choices. Part of liberal arts cluster for lower-division honors students.

HST 222 History of American Sexuality 3 Y

Examines sexuality in America from the colonial period to the present, exploring how American views of sex and desire have changed over time.

HST 231 English History 3 IR

Britain from the Roman occupation through the Revolution of 1688.

HST 232 English History 3 IR

Continuation of HST 231 from 1688.

HST 270 Experience Credit 1-6 Y

Participation in a discipline or subject related experience. Student must be evaluated by written or oral reports or an examination. Permission in advance with the consent of the department chairperson, instructor, and dean. Limited to those in good academic standing. R

HST 280 International Course 1-12 Y

Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the S.U. academic department to assign the appropriate course level, title, and grade for the student's transcript. R

HST 290 Independent Study 1-6 Y

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

HST 295 The Development of Air Power: First 50 Years 0-1 Y

Crosslisted with: ASC 295

Factors contributing to change in the nature of military conflict, the development of air power from its earliest beginnings, and the way air-power doctrine has evolved.

HST 296 The Development of Air Power: 1947 to the Present 0-1 Y

Crosslisted with: ASC 296

The development of air power from the end of World War II to the present. How air power is used in support of both military and nonmilitary national objectives.

HST 300 Selected Topics 1-3 Y

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

HST 302 Early American History 3 IR

European invasion of America. Native American resistance. Institutions of conquest, colonization, and empire. Anglicization of the colonists and the acculturation of the Iroquois. Servitude, slavery, and the family.

HST 303 The Age of the American Revolution 3 IR

Provincial America, its peoples, and their societies. Imperial war and administration. Anglo-American politics and dissent. The war of national liberation. Confederation; formation of the Constitution.

HST 304 Age of Jefferson and Jackson 3 Y

Development of political parties and institutions from 1789 to 1850. Impact of major figures, such as Jefferson and Jackson. Social and economic factors.

HST 305 America in Crisis: The Civil War and Reconstruction 3 Y

Coming of the Civil War, leading figures in the crises, and problems of reconstructing the divided nation.

HST 307 The United States in the Modern Age, 1917-1963 3 IR

World War I. Social/political development in the twenties. Impact of the Depression. Roosevelt and the New Deal. World War II. Cold War, McCarthyism, private culture of the fifties, emergence of the Civil Rights movement.

HST 308 Recent History of the United States, 1963-Present 3 Y

The Great Society. Domestic ferment in the sixties. Vietnam. Watergate. Economic defeats of the seventies and eighties. Ronald Reagan's America. The politics of the nineties and the shaping of new prosperity.

HST 309 Lawmakers and Lawbreakers: Crime and Punishment in Britain 3

A social, cultural and economic analysis of criminality in England over the last 700 years; how it was perceived, defined and penalized, and how crime was construed in different ways depending on changing conditions. Offered in London only.

HST 310 The Early Middle Ages 3 IR

History of Western Europe from c. 300 to c. 850. Political, religious, cultural, social, and economic developments. Special emphasis on reading and analyzing primary sources.

HST 311 Medieval Civilization 3 Y

Political, economic, religious, cultural history of Europe 800-1200, including the fall and rise of royal authority, disagreements over the roles of church and king, economic change, developing ideas and technologies, the rise of cities.

HST 312 Reformation of the 16th Century 3 IR

Protestant and Catholic Reformations. French Civil Wars, social foundations of modern religious denominations, and his-torical psychology of religious conversion experiences.

HST 313 French Revolution: Sun King to Guillotine 3 Y

How the Europe of Bach, Mozart, Voltaire, and Frederick the Great became the Europe of Beethoven, Goethe, the French Revolution, and Napoleon.

HST 314 Europe from Bismarck to the First World War 3 IR

Domestic development and foreign relations of major European states. Industrialization, urbanization, emergence of mass political parties, socialism and class conflict, social reform, growth of nationalist loyalties, imperialism, causes of World War I.

HST 315 Europe in the Age of Hitler and Stalin 3 Y

World War I as the great divide. Why fascism, crisis for democracies, Soviet dictatorship and its impact on Europeans, and World War II emerged one generation later.

HST 316 Europe Since 1945 3 IR

History of Europe from the fall of the Nazi-led 'New Order' to the present. Cold War in East/West Europe, economic growth/social change, decolonization, welfare state, fall of Communism, European Union, and contemporary Europe.

HST 318 Introduction to the Middle East 3 IR

Crosslisted with: MES 318
Beginning with the rise and spread of Islam through the reform era of the nineteenth-century, this course focuses on the social and cultural history of the Ottoman Empire.

HST 319 The Middle East in the 20th Century 3 IR

Crosslisted with: MES 319
Social and cultural history of the Middle East in the twentieth-century, including themes such as colonialism, anti-colonial nationalism, modernity, social movements, women and gender, and contemporary issues.

HST 320 Traditional China 3 IR

Political, economic, social and cultural history before 1650. Emphasis on sources of change and stability. Main themes: Confucianism, Buddhism, and Daoism; invasion and rebellion; conquest and consolidation. May not be repeated for credit.

HST 321 Modern China 3 Y

Political, economic, social and cultural history since 1650. Main themes: Social change in city and countryside, impact of Western nations, enduring legacies of traditional China.

HST 322 Colonial Latin America 3 Y

Crosslisted with: LAS 322, SPA 325
Development of Amer-Indian civilization and the Spanish conquests. Evolution of the Spanish American economy and the unique American culture. Growth of the plantation economy of Brazil. The movements toward independence.
PREREQ: SPA 202.

HST 323 Modern Latin America 3 Y

Crosslisted with: LAS 313
The turmoil of the postindependence period and the search for economic and political stability. Reasons for and consequences of export-led growth. The role of the United States in preserving the status quo in the Americas.

HST 324 Recent Latin American History 3 IR

Crosslisted with: LAS 324
Developments since World War I. Political, economic, and social change and growth of nationalism.

HST 325 Africa to 1800 3 IR

Crosslisted with: AAS 325
The first half of a two semester survey focusing on the evolution of African cultures and civilization in the traditional period. Topics: the emergence of man, migration of peoples, economic and social systems, state formation, the slave trade. Arabic influences and the early European settlement in South Africa.

HST 326 Africa Since 1800 3 IR

Crosslisted with: AAS 326
Second half of the survey, studying Africa when it was affected by European peoples and cultures. Topics: penetration by European explorers and missionaries, imperialism and colonialism, African resistance and rebellion, nationalism and liberation, neocolonialism and other problems of independence. AAS/HST 325 is not a prerequisite.

HST 327 A History of Southern Africa 3 IR

Begins before arrival of Europeans in southern Africa. Economic, geographic, sociological, and political factors contributing to development of this unique, racially based modern state. Includes Afrikaaner diaspora, Euro-African conflict during the nineteenth century, Anglo-Boer War, from union to apartheid, and resistance to European domination.

HST 328 Ancient and Medieval India 3 IR

Crosslisted with: SAS 328
Formation of traditional Indian kinship, religion, philosophy, and culture. Vedic society and the rise of Buddhism. Medieval Hindu kingdoms. Expansion and the legacy of Islam. Rise and disintegration of the Mughal empire.

HST 329 Making of Modern India 3 Y

Crosslisted with: SAS 329
British colonial expansion in India. Emergence of nationalism and related movements of religious, social, and cultural reform. Gandhi and non-violence. Struggle for independence and the politics of gender, class, caste, and religious community.

HST 330 The Iroquois 3 IR

The People of the Longhouse, the Five (afterwards Six) Nations, their archaeology, tradition, and history, from 1100 to 1815. May not be repeated for credit.

HST 332 African American History: Through the 19th Century 3 Y

Crosslisted with: AAS 332
Cultural, economic, political, and social developments shaping experiences of North Americans of African descent. Foundations of collective identity and diversity. African American historiography. Interpretive and methodological issues in historical practice.

HST 333 African American History: After the 19th Century 3 Y

Crosslisted with: AAS 333
Continuation of AAS/HST 332.

HST 334 Social and Cultural History of the United States 3 IR

Social and cultural developments, 1607-1861. American population growth, rural and urban life, religion, education and learning, literature and the arts.

HST 335 American Social and Cultural History 3 IR

Crosslisted with: WGS 335
Nature of "American character" through the last century. Aspects of intellectual life, social mores, industry, and art that represent Americans' definitions of themselves and their nation.

HST 336 United States in World Politics to 1914 3 IR

American diplomacy to 1914.

HST 337 United States in World Politics Since 1914 3 IR

American diplomacy from 1914 to the present.

HST 338 History of the Southern United States to 1865 3 E

Development of Old South society, economy, culture, and politics through readings, lectures, and discussions. First part of two-course survey of Southern United States.

HST 339 History of the Southern United States Since 1865 3 E

Development of southern society, economy, culture, and politics after the Civil War. Readings, lectures, and discussions. Second part of a two-course survey of the Southern United States.

HST 340 Women in America: 17th Century to the Civil War 3 Y

Crosslisted with: WGS 342
Focus on significant social and political transformation, activism, and individuals

HST 341 The Modern American Presidency 3 Y

Crosslisted with: PSC 329
Evolution, operation, and perceptions of the American presidency during the last quarter-century. Modern chief executives and factors contributing to their success or failure.

HST 342 Modern American Political Thought 3 IR

Crosslisted with: PSC 327

American political thought from the impact of Darwinian science to the present. Basic thought patterns of 20th-century public life and philosophical foundations of contemporary political movements.

HST 343 History of New York State 3 IR

New York's development since 1850, with special attention to the industrial order on its society, government, politics, and social thinking. Primarily for prospective teachers.

HST 345 Workers and Organized Labor in U.S. History, 1840 to Present 3 IR

The history of American workers and their efforts at protesting the transformation of the U.S. economy. The Knights of Labor, the A.F.L., the I.W.W., and the C.I.O. Forms of dissent: culture, violence, and radicalism law.

HST 346 The Idea of Opportunity in America 1890-1940 3 IR

Diverse contemporary perspectives on American opportunity - and its limits - from the closing of the frontier through the Great Depression. Tensions and possibilities resulting from urbanization, immigration, technological advances, persistent conservatism, reform, and radical impulses.

HST 347 Twentieth-Century U.S. Politics in Fiction 3 IR

The political culture of the 20th-century U.S. through the medium of popular fiction. Writing-intensive and discussion-based class, with enrollment limited to 20 students.

HST 349 Women in America: Civil War to Present 3 Y

Crosslisted with: WGS 349

Focus on significant social and political transformation, activism, and individuals.

HST 352 History of Ancient Greece 3 Y

Ancient Greek political, economic, social, and cultural history based on interpretation of primary sources, both literary and archaeological, from the Bronze Age through Alexander the Great.

HST 353 History of Ancient Rome 3 Y

Ancient Roman political, economic, social, and cultural history based on interpretation of primary sources, both literary and archaeological, from the foundation of the city to the dissolution of the Empire in the west.

HST 354 Decline and Fall of the Roman Empire 3 Y

The late Roman Empire and the Mediterranean world from c.200 to c.700. Political, religious, cultural, social history. Rise of Christianity, transformation of classical culture, and the so-called Decline and Fall of Rome.

HST 355 The Italian Renaissance 3 Y

Renaissance in Italy, between 1330 and 1500. Political, economic, and intellectual developments. Also offered regularly abroad.

HST 356 Italy Since 1600 3 IR

History of Italy from the end of the Renaissance to the present. Struggle for unification, rise of fascism, and transformations of postwar Italy.

HST 357 Culture and Politics in Early Modern England: From Henry VIII to Elizabeth I 3 Y

Renaissance and Reformation in 16th-century England. Transformation of politics, culture, and society from the Wars of the Roses through the reign of Elizabeth, 1485-1603. Also offered regularly abroad.

HST 358 Revolution and Reaction in 17th-Century England 3 Y

Emergence of modern England, 1603-1714. Triumph of parliamentary institutions, development of capitalism, and beginning of the empire. Intellectual and cultural change: transition from religious controversy to the age of reason.

HST 359 Modern Britain 1850 to the Present 3 IR

Political, cultural, and intellectual history of Britain from 1850. Considers the idea of Britishness as national identity, cultural construct, or imperial discourse. Questions the meaning of modernity as a model for change.

HST 360 France Since 1870 3 IR

Political turbulence as the legacy of revolution and empire. Lushness and crisis. Peasants, workers, city people, army officers, psychiatrists, and priests. France in the age of total war. May not be repeated for credit.

HST 361 Germany to World War I, 1770-1918 3-4 IR

Causes and consequences of the first unification of Germany: Authoritarian and military characteristics of Prussia. Its response to modern challenges. Bismarck's unification of Germany under Prussia. Strengths and weaknesses of the new German Empire. Overthrow in 1918.

HST 362 Nazi Germany, 1933-1945 3-4 Y

Rise of Hitler and growth of the Nazi party. Construction of a dictatorship after 1933, changes in the everyday life of the Germans, Hitler's diplomacy and war, the Holocaust.

HST 364 The Origins of Modern Russia 3-4 IR

Russian history from Muscovy to the Revolution of 1905, with an emphasis on political institutions, the stratification of society, and the growth of the intelligentsia.

HST 365 Russia in the Twentieth Century 3-4 IR

A survey of Russian history from the Revolution of 1905 to the present, including WW I and revolutions of 1917, Leninism, Stalinism and the collapse of the USSR.

HST 367 Plague in European Society 3 Y

Social, economic, and cultural impact of plague from antiquity to the eighteenth century. The Black Death. History of diagnosis, treatment, and prevention of plague.

HST 368 Islam and the West 3

Crosslisted with: MES 368, PSC 368

Topics include globalization and interdependency of faiths, the "clash of civilizations", relations between religion and state in Islam and Christianity and whether it is possible to separate the world into monolithic entities "Islam" and "West". Offered in London only.

HST 369 The World at War: 1914-1918, 1939-1945 3 Y

Major developments in military history of World War I and World War II. Film as one tool for understanding nature and scope of conflicts that changed the world.

HST 371 Gender in Latin American History 3 Y

Crosslisted with: LAS 371, WGS 371

History of women and gender relations from colonial period to the present. Influence of race, class, and ethnicity on gender. Relation of gender to labor, family, sexuality, and politics.

HST 372 Race in Latin America 3 IR

Crosslisted with: LAS 372, NAT 372

Race relations in Latin America from the late colonial era to present. Indigenous, immigrant, and Afro-Latin American experiences and how they have changed over time. Relations of race to national identity.

HST 375 British Empire 3 IR

Crosslisted with: SAS 375

Seminar on expansion of the British Empire (emphasis on India and Africa) in the 18th and 19th centuries. Explores histories of conquest, administration and imperial policy, and the ideologies of imperialism and colonialism.

HST 376 Renaissance London (Honors) 4

History and development of London in the 16th and 17th centuries. Topics include the visual arts; cultural, economic, and social change; literature and the theater; crime; architecture; and royal politics and government.

HST 377 History of Venice 3 Y

History of the city of Venice from its origins to the present. Considers Venice as an independent republic and imperial power and its significance in the Western imagination.

HST 378 Early Modern Mediterranean 3 Y

Focus on Ottomans, Italy, France, Iberia, North Africa, 1348-1789. Topics include international relations and empire-building in Africa, Asia, and Europe; commerce, piracy, plague, religion, family/sexuality, architecture, political and cultural developments during Renaissance, Age of Discovery Enlightenment.

HST 379 Gender and Colonialism 3 IR

Crosslisted with: WGS 379

Explores the intersection of gender and race in colonial ideologies, imperial practices and anti-colonial nationalist movements, in the 18th and 19th centuries.

HST 380 International Course 1-12

Offered through SUAbroad by educational institution outside the United States. Student registers for the course at the foreign institution and is graded according to that institution's practice. SUAbroad works with the S.U. academic department to assign the appropriate course level, title, and grade for the student's transcript. R

HST 383 Foundations of American Political Thought 3 IR

Crosslisted with: PSC 326

American political thought from the Puritans to Lincoln. American Revolution, establishment of the Constitution, and Jeffersonian and Hamiltonian systems.

HST 384 American Environmental History and Geography 3

Crosslisted with: GEO 354

Relationship between Americans and the natural environment from the colonial period to the present. Ecological imperialism, technology and nature, resource management conflicts, urban environments, development of conservation and environmentalism.

HST 385 United States Legal History, 1620 to Present 3 IR

The role of law in American history from the colonial period to the present. The common law, the Constitution, the market revolution, slavery and emancipation, laissez-faire, legal realism, the New Deal, and civil rights.

HST 386 Crime and Society in American History, 1620 to Present 3 IR

The history of American deviance and dissent from colonial Massachusetts to the present. Social transformation and the rise of urban crime. The changing role of the state. Police, radicalism, alcohol, vice, sexuality, and organized crime.

HST 387 Women, Abolition, and Religion in 19th Century America 3

Crosslisted with: REL 341, WGS 341

The role that religion may have played in women's understandings of themselves as abolitionists and social reformers. A selected group of women will be studied, with considerable attention given to Frances Harper.

HST 388 Vietnam: Movies, Memoirs and the Shaping of Public Memory 3 IR

An exploration of Vietnam in public memory through film and personal memoirs.

HST 389 LGBT Experience in American History 3

Crosslisted with: QXS 389, WGS 389

The history of lesbian, gay, bisexual, transgender experience in American history. Effective spring 2007.

HST 390 Independent Study 1-6 SI

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

HST 391 Mary Magdalene: History of a Legend 3 IR

Examines legends surrounding Mary Magdalene, from New Testament to Da Vinci Code. Uses diverse primary sources and scholarship; traces the legend's evolution and examines its changing significance.

HST 392 History of the Holocaust 3 Y

Crosslisted with: JSP 392

Study of the events and issues of historical interpretation in the Holocaust, 1933-1945. Attitudes and behavior of Nazi perpetrators, Jewish victims, and bystanders.

HST 393 East Asia and the Socialist Experience 3 Y

Examines the adoption of socialism in East Asia. Historical account of how socialist China, Mongolia, North Korea and Vietnam arose, developed, "failed" and responded to globalization in the 20th century.

HST 395 Modern Japan 3 O

Examines Japanese society from early-modern times (1600-1868) through modern (1868-1945) and postwar Japan (1945-today). Topics include: urbanization, mass culture and nationalism, popular protest, imperialism and empire, gender, war and occupation and globalization.

HST 396 Women and the American Frontier 3 Y

Crosslisted with: WGS 396

The North American frontier, from the 17th to the early 20th century, as it was experienced by women of various cultural and national origins.

HST 397 Modern Korea 3 E

Examines political, economic and social history from 1860 until today. Topics include: colonialism, modernity, division, the Korean War, nation-building, nationalism, democratization, North Korean society, inter-Korean affairs, nuclear issues, Korean Diaspora and "Korea Wave."

HST 398 Saints and Sinners in the Middle Ages 3 Y

Investigates notions of sanctity and modes to impose morality and social discipline in the medieval period. Reading narrative texts (esp. saints lives and literary texts) as historical sources. First offered in Spring 2011

HST 399 Utopia and Institution: Early Monasticism 3 Y

Investigates the rise of monasticism in the West as a case study on institution forming and the attempts to organize perfect life in a community..

HST 400 Selected Topics 1-3 Y

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

HST 401 Senior Seminar 3 Y

Research techniques in the use of source material and historical evidence. Preparation of original research paper. Satisfies research requirement for history majors and minors.

HST 402 Slavery and Abolition 3 Y

Crosslisted with: AAS 402

Evolution and diverse character of North American slavery and antislavery. Slavery as labor, legal, and property system, cultural and political phenomenon, and social and economic network. Politics and ethics of abolition.

HST 404 Family and Gender in Renaissance Italy 3

Crosslisted with: ANT 404, WGS 404

Historical and interdisciplinary exploration of life stages, rites of passage, marriage, family, social life, sodomy, prostitution, career options, and alternate life strategies as illustrated by case studies. Offered only in Florence.

HST 405 History of American Popular Culture 3 IR

Exploration of the history of American popular culture and the use of popular culture to study history.

HST 408 The Practice of Eros: A History of Sexuality in Europe (1400-1800) 3

Crosslisted with: ANT 408, WGS 408

Authorized and "alternative" sexuality in Europe 15th to 18th centuries (especially Italy, France, and England.) "Licit love" (courtship, marriage, conjugal relations) as opposed to "illicit unions" (adultery, rape, prostitution, bestiality, homosexuality, lesbianism). Offered only in Florence.

HST 409 A History of Witchcraft 3

Crosslisted with: ANT 409, REL 409, WGS 409

History of witchcraft from various perspectives: its intellectual roots, the causes and dynamics of the witch-hunt, and the beliefs and self-perceptions of those who were called "witches". Offered only in Florence.

HST 410 Science and Technology in the Modern World 3

Crosslisted with: STS 410

Interaction of science with technology from 1700 to the present. Technological artifacts and their scientific background. Development of new technology from scientific research and from old-fashioned dreaming and tinkering.

HST 424 Dictatorships, Human Rights, and Historical Memory in the Southern Cone 3 S

Crosslisted with: IRP 424, LAS 424, PSC 424

Offered only in Santiago. The time period (1940-present) and its significance and contributions to the configuration of social, political and economic aspects of Chile today. Relies on primary sources, comparisons within the Southern Cone, and a focus on US role and influence during this period.

HST 434 Underground Railroad 3 S/I
Crosslisted with: AAS 434, ANT 494; Double
Numbered with: HST 634
Myth and history of the Underground in the
context of African American freedom efforts.
Emphasis on events, personalities, and sites in
upstate New York. Student field research and
exploration of archival and Internet resources.
Additional work required of graduate students.

**HST 447 France from the Revolution to
the Great War 3 Y**
Crosslisted with: FRE 447
Study of the rise of the French Republic, its
revolutions, and its recurrent lapses into
authoritarian rule, notably under Napoleon I
and III. Conducted in French. Offered in
Strasbourg only. [Effective spring 2009]

**HST 449 France from the Treaty of
Versailles to European Integration 3 Y**
Crosslisted with: FRE 449
Analysis of major events in recent French
history, including the rise of the Popular
Front, the Nazi Occupation, the end of
colonial rule, and the process of European
integration. conducted in French. Offered in
Strasbourg only. [Effective spring 2009]

**HST 451 Visual Culture Past and
Present: Gender, Religion and Politics 3**
Crosslisted with: CRS 451, REL 451, WGS 451
Offered only in Florence. Contemporary
visual culture; its representation of gender,
religion, and politics and the origins of that
representation in a pictorial language first
codified in Italy and Europe between circa
1450 and 1650.

HST 452 Italy Since 1870 3
Italian history, 1870 to present: political
unification and development of national
culture; facism; WW II; Cold War; North-
South divide and "economic miracle;" "La
dolce vita" and myth of America; Mafia;
1960s youth culture; 1970s terrorism; 1980s
political crisis. Offered only in Florence.

HST 453 Twentieth Century Europe 3
Crosslisted with: PSC 453
Politics, society, war, and peace in Europe,
1919-1992. Nazi Germany, WW II, the Cold
War, post-war reconstruction, social and
economic transformations, and the
revolutions of 1989 in Eastern Europe.
Offered only in Florence.

**HST 454 Family and Gender in
Contemporary Italy 3 IR**
Crosslisted with: SOC 454, WGS 454
Family structures and gender relations in Italy
from the Unification to the present. Offered
only in Florence.

**HST 457 Gender, Politics, Society in
Europe (1400-1800) 3 IR**
Crosslisted with: SOC 457, WGS 457
Relationship between the sexes in politics,
philosophy, literature, and art. Emergence of a
dissident "voice" relative to gender identity
and social role, with implications for race and
religion. Offered only in Florence.

HST 470 Experience Credit 1-6
Participation in a discipline or subject related
experience. Student must be evaluated by
written or oral reports or an examination.
Permission in advance with the consent of the
department chairperson, instructor, and dean.
Limited to those in good academic standing. R

HST 480 International Course 1-12
Offered through SUAbroad by educational
institution outside the United States. Student
registers for the course at the foreign
institution and is graded according to that
institution's practice. SUAbroad works with
the S.U. academic department to assign the
appropriate course level, title, and grade for
the student's transcript. R

HST 490 Independent Study 1-6 S
In-depth exploration of a problem or
problems. Individual independent study upon a
plan submitted by the student. Admission by
consent of supervising instructor or
instructors and the department. R

HST 495 Distinction Thesis in History 3
Conducting research and writing a thesis for
departmental distinction in History under the
guidance of a faculty member.

HST 496 Distinction Thesis in History 3
Conducting research and writing a thesis for
departmental distinction in History under the
guidance of a faculty member.
PREREQ: HST 495.

HST 499 Honors in History 3-6 S

HST 500 Selected Topics 1-3 IR
Exploration of a topic (to be determined) not
covered by the standard curriculum but of
interest to faculty and students in a particular
semester. R

**HST 510 Studies in African American
History 3 IR**
Crosslisted with: AAS 510
Particular periods or aspects of African
American history. R

International Relations

**IRP 334 Contemporary Issues in Chile
and Latin America 2 S**
Crosslisted with: LAS 334, PSC 428
Offered only in Santiago. This seminar
features in-situ lectures and activities in Chile,
Argentina and Uruguay introducing important
political, sociological and environmental issues
in the Southern Cone region.

IRP 401 Global Policy Seminar 3 S
A traveling, all-day weekly seminar on how
U.S. foreign and national security policy is
made and "how Washington works." Features
guest speakers and visits to agencies and
offices. Offered only in Washington, D.C.
PREREQ: PSC 124 OR PSC 139.

IRP 402 Global Policy Seminar II 3 S
A traveling, all-day weekly seminar on how
U.S. foreign and national security policy is
made and "how Washington works." Features
guest speakers and visits to agencies and
offices. Offered only in Washington, D.C., and
in conjunction with IRP 401.
PREREQ: PSC 124 OR PSC 139.

IRP 403 Global Issues 3 S
Topics such as terrorism, weapons
proliferation, AIDS, global warming, drugs,
refugees, migration; lively debate, simulations.
Offered only in Washington, D.C.
PREREQ: PSC 124 OR PSC 139.

**IRP 404 Global Political Economy Issue 3
S**
International trade and economic issues; the
politics of economics and economic elements
of global concerns. Guest experts, advocates
from interest groups in the nation's capital.
Offered only in Washington, D.C.
PREREQ: PSC 124 OR PSC 139.

**IRP 412 Global Governance: The United
Nations System 3 Y**
Crosslisted with: PSC 412
The theory and practice of global governance
and international diplomacy through an in-
depth study of the United Nations system.
Critique readings and discuss current UN-
related events. Fulfills the IR capstone for
International Law and Organizations (ILO).
Permission of instructor.
PREREQ: PSC 124.

**IRP 424 Dictatorships, Human Rights,
and Historical Memory in the Southern
Cone 3 S**
Crosslisted with: HST 424, LAS 424, PSC 424
Offered only in Santiago. The time period
(1940-present) and its significance and
contributions to the configuration of social,
political and economic aspects of Chile today.
Relies on primary sources, comparisons within
the Southern Cone, and a focus on US role and
influence during this period.

**IRP 431 Environment and Development in
China 3 S**
Offered only in Beijing. Addresses challenges
in the environment and development arena in
contemporary China, with analysis of conflict
and resolution from multiple public policy
perspectives.

**IRP 468 Middle East in Anthropological
Perspective 3 IR**
Crosslisted with: ANT 468, MES 468; Double
Numbered with: IRP 668
Anthropology of the social, cultural,
geographical, and political realities of the
Middle East. Additional work required of
graduate students.

IRP 471 Global Internship 3 S
Internship offered in Washington, D.C. as part
of the Maxwell-Washington IR semester.
Students accepted on the basis of academic
qualifications.
PREREQ: PSC 124 OR PSC 139.

IRP 515 China in Transition 3 S

Offered only in Beijing. Seminar examines the unprecedented, multi-faceted transitional changes occurring in China since the late 1970s. Impact of reforms on China's external relations.

Middle Eastern Studies

MES 318 Introduction to the Middle East 3 IR

Crosslisted with: HST 318

Beginning with the rise and spread of Islam through the reform era of the nineteenth-century, this course focuses on the social and cultural history of the Ottoman Empire.

MES 319 The Middle East in the 20th Century 3 IR

Crosslisted with: HST 319

Social and cultural history of the Middle East in the twentieth-century, including themes such as colonialism, anti-colonial nationalism, modernity, social movements, women and gender, and contemporary issues.

MES 336 Arabic Cultures 3 IR

Crosslisted with: LIT 336

Arabic culture through geography, literature, religion (Islam and other religions), ethnic groups, social divisions, films, the media, music, art, food, gender issues, and everyday life.

MES 342 Religion and Politics in the Israeli-Palestinian Conflict 3 S

Crosslisted with: JSP 342, PSC 342, REL 342

Considers the extent to which religion matters in an enduring ethno-nationalist conflict. Approaches the Israeli-Palestinian conflict from an interdisciplinary perspective that explores the intersection of religion and politics.

MES 344 Politics of the Middle East 3 Y

Crosslisted with: PSC 344

Religious, political, economic, and social dimensions of life in modern Middle East. Legacy of Islam, encounter with Western modernity, Arab-Israeli conflict, and political economy of the region.

MES 345 Islam and Politics in Asia 3 IR

Crosslisted with: PSC 345

Survey of the diverse and protean role Islam plays in Asian public life by analyzing the variegated cultural, political, religious, and social milieu that it has encountered in Central, South, and Southeast Asia.

MES 349 Politics of Iran 3 IR

Crosslisted with: PSC 349

Historical and theoretical understanding of modern Iranian politics and society from the late 19th century to the present time.

MES 366 Representations of the Middle East 3

Crosslisted with: PSC 366

The politics of "gazing" and cultural imagination through critical analysis of how the mass media articulates, transmits, promotes and legitimizes knowledge and information about the Middle East.

MES 367 Oil, Water and War 3

Crosslisted with: PSC 367

Examines current level of knowledge about historical connections among war and the resources of petroleum and fresh water. Also looks at how alternative claims about these goods will be expressed in the future.

MES 368 Islam and the West 3

Crosslisted with: HST 368, PSC 368

Topics include globalization and interdependency of faiths, the "clash of civilizations", relations between religion and state in Islam and Christianity and whether it is possible to separate the world into monolithic entities "Islam" and "West". Offered in London only.

MES 382 Health in the Middle East 3 IR

Crosslisted with: ANT 382, HTW 382

Surveys major cultural, biological and environmental features of the Middle East and relates them to aspects of health including infectious disease, chronic disease, reproductive health, population, war, poverty and globalization.

MES 430 Senior Seminar in Middle Eastern Studies 3 Y

The culmination course for students pursuing a minor in Middle Eastern Studies. An interdisciplinary study of special topics that fall under the rubric of Middle Eastern Studies: Western modernity, Islamic thought and practices, and popular culture. PREREQ: MES/PSC 344. R1, 6 credits maximum

MES 468 Middle East in Anthropological Perspective 3 IR

Crosslisted with: ANT 468, IRP 468; Double Numbered with: MES 668

Anthropology of the social, cultural, geographical, and political realities of the Middle East. Additional work required of graduate students.

MES 495 Distinction Thesis in Middle Eastern Studies 3 S

Thesis in partial fulfillment of the requirements for the Distinction in Middle Eastern Studies Program. Normally in the semester prior to graduation, topic chosen in conjunction with advisor.

Native American Studies

NAT 105 Introduction to Native American Studies 3 S

Overview of critical issues in Native American Studies: colonization, religious freedom, environment, sovereignty, and politics of identity, interdisciplinary, comparative, and indigenous perspectives in relation to histories, societies, and cultures.

NAT 142 Native American Religion 3 Y

Crosslisted with: REL 142

Religious beliefs and practices of native Americans; the diversity as well as similarity of religious expression.

NAT 200 Selected Topics in Native American Studies 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

NAT 208 Haudenosaunee Languages and Culture 3 O

Languages and culture of the six Haudenosaunee Indian nations. Terminology and structure of Haudenosaunee languages. Creation story, Great Law of Peace, Code of Handsome Lake.

NAT 244 Indigenous Religions 3 E

Crosslisted with: ANT 273, REL 244

The connections between material life and religious life in cultures throughout the world. The diverse ways that various cultures inhabit their landscapes.

NAT 290 Independent Study 1-6 S

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

NAT 300 Selected Topics in Native American Studies 1-3 S

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

NAT 323 Peoples and Cultures of North America 3 IR

Crosslisted with: ANT 323

Racial, linguistic, and cultural areas of North America from the Rio Grande to the Arctic. Selected areas and tribes. Data from archaeology, historical records, and contemporary anthropological fieldwork.

NAT 346 Native North American Art 3

Crosslisted with: HOA 387

Critical exploration of meanings, functions, techniques, and varieties of art in Native North American cultures, ancient to present. Attention to continuities, changes, and cultural exchanges: anthropological vs. art historical perspectives: limitations of term "art."

NAT 347 Religion and the Conquest of America 3 IR

Crosslisted with: REL 347

The development of America through the contact between indigenous and colonial people's divergent religious understandings of land.

NAT 348 Religion and American Consumerism 3 IR

Crosslisted with: REL 348

Interrogates the relationship of American religious and economic practices, as compared with Native American traditions, during the 19th and 20th centuries.

NAT 372 Race in Latin America 3

Crosslisted with: HST 372, LAS 372

Race relations in Latin America from the late colonial era to present. Indigenous, immigrant, and Afro-Latin American experiences and how they have changed over time. Relations of race to national identity.

NAT 400 Selected Topics in Native American Studies 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

NAT 441 Federal Indian Policy and Native American Identity 3 IR

Crosslisted with: SOC 441

Shifts in Federal Indian policy and the social construction of American Indian identity. Identity struggles and identity politics in relation to blood and descent, community, land and sovereignty.

NAT 444 Contemporary Native American Movements 3 IR

Crosslisted with: SOC 444

Sociological analysis of Native American movements from 1960s to the present. National and regional movements in relation to jurisdictional issues and human rights. Red Power and pan-Indian movements are considered.

NAT 445 Public Policy and Archaeology 3 IR

Crosslisted with: ANT 445; Double Numbered with: NAT 645

Proactive critique of public policy and implementation efforts to preserve and protect archaeological and historical sites and resources. Additional work required of graduate students.

NAT 447 Archaeology of North America 3 IR

Crosslisted with: ANT 447; Double Numbered with: NAT 647

Introduction to the regional prehistory of North America north of Mexico, from the late Pleistocene until European contact. Adaptation of prehistoric human populations to their ecosystems. Additional work required of graduate students.

NAT 456 Representations of Indigenous Peoples in Popular Culture 3 IR

Crosslisted with: ANT 456; Double Numbered with: NAT 656

Contested images used by colonizers and other non-indigenous people to represent Native Americans and other indigenous peoples. How indigenous people represent themselves in a variety of media. Additional work required of graduate students.

NAT 459 Contemporary Native North American Issues 3 IR

Crosslisted with: ANT 459; Double Numbered with: NAT 659

Contemporary issues including federal Indian policy, population controls, fishing rights, religious freedom, land disputes, gaming, repatriation, environmental colonialism, and Native American artistic response. Additional work required of graduate students.

NAT 461 Museums and Native Americans 3 IR

Crosslisted with: ANT 461; Double Numbered with: NAT 661

The contested relationships among Native North Americans and museums from earliest contact until the present. Topics include: "salvage" ethnography, collecting practices, exhibition, and recent shifts in power. Additional work required of graduate students.

NAT 490 Independent Study 1-6 S

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

Political Science

PSC 121 American National Government and Politics 3 S

American political institutions. Basic principles embedded in structure and practices of American government. Practical consequences of this political system for the citizen. Credit is given for PSC 121 or PSC 129, but not both.

PSC 122 American State and Local Government and Politics 3 IR

Role of state and local politics in American politics. Changing notions of proper political process and governance. Nature of the political process. State and local interactions. Politics and policy pursuance.

PSC 123 Comparative Government and Politics 3 Y

Comparison of selected governmental institutions, individual and collective political actors, and issues across the industrialized and developing world. Particular attention to dynamics of socioeconomic and political change.

PSC 124 International Relations 3 S

Foreign policy, decision making, comparative foreign policy, international transactions, and the international system. Credit is given for PSC 124 or PSC 139, but not both.

PSC 125 Political Theory 3 Y

Introduction to theories of major modern political philosophers (Locke, Rousseau, Hume, J.S. Mill, Marx). Contemporary theories of liberty, justice, and equality.

PSC 129 American National Government and Politics (Honors) 3 Y

American political institutions and their founding. The public role in a democratic regime. Ability of contemporary arrangements to meet the demands of the modern world. Credit is given for PSC 121 or PSC 129, but not both.

PSC 139 International Relations (Honors) 3 IR

Major world views which comprise contemporary international relations. Lectures, readings, journal writing, and small group discussion. Credit is given for PSC 124 or PSC 139, but not both.

PSC 200 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

PSC 202 Introduction to Political Analysis 3 S

Introduction to important political science concepts; basics of political argumentation and reasoning; and basic quantitative research and analysis techniques.

PSC 270 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

PSC 290 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

PSC 300 Selected Topics 1-3 S

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

PSC 302 Environmental Politics and Policy 3 Y

The environmental policy process and the politics that influence the formulation and adoption of environmental policies in the United States.

PREREQ: PSC 121.

PSC 303 The Rise of the National Government 3 IR

Explores the reasons for the transition in America from resistance to a strong national government to grudging acceptance of it. Evolving notions of the desired role of the national government, and how changing economic conditions and political alignments affect that role.

PSC 304 The Judicial Process 3 Y

American legal structure and process: policy making by courts, relations with other branches of the national government, and the changing role of the Supreme Court in our federal political system.

PREREQ: PSC 121.

PSC 305 The Legislative Process and the U.S. Congress 3 Y

Functions of the legislative branch: representation, control of the public purse, and executive oversight. Recent changes brought about by electoral forces and internal reforms.

PSC 306 African American Politics 3 Y

Crosslisted with: AAS 306

Introduction to the African American experience in the American political system, from the colonial period to the present. Organization/leadership, federal institutions/relations, sociopolitical movements, and electoral politics.

PSC 307 The Politics of Citizenship 3 Y

How governments understand membership through citizenship laws and practices. Includes the history of citizenship, evolution of modern citizenship, migration, and "post-national" citizenship.

PSC 308 The Politics of U.S. Public Policy 3 IR

Relationship between American political institutions, politics and public policy. Significance of public policies for democratization in the U.S., highlighting dynamics of race, class, and gender. Development and implementation of policies.

PSC 309 Interest Group Politics 3 IR

Uses theoretical and real world materials to examine the strengths and weaknesses of interest groups in American politics. The role of groups in shaping public interest and influencing policy decisions. PREREQ: PSC 121.

PSC 311 American Political Parties 3 Y

Historical and contemporary roles of political parties in American government and politics.

PSC 312 Urban Government and Politics 3 IR

Changes in populations, notions of governance, and means of governance in city and metropolitan politics. Effects of political arrangements on responses to people and the public policies pursued. Role of private power.

PSC 313 Campaign Analysis 3 E

In-depth analysis of specific campaigns. Review of literature, followed by analysis, involving: media review, targeting analyses, survey writing, polling, survey analysis, exit polling, and review of election results. Acquisition and application of skills.

PSC 314 Public Opinion and Electoral Behavior 3 IR

American mass public; origins, nature, effects of its political beliefs, and patterns of its voting behavior.

PSC 316 The Supreme Court in American Politics 3 Y

The Court's dual character as a legal and political institution. Explores the Court's decision-making process and the impact of those decisions on politics and policy.

PSC 317 Local Internship 3 S

Students work in conjunction with members of Congress, state legislature, or in local political campaigns. Representatives of these offices come to seminars for discussions about working in government and politics.

PSC 318 Technology, Politics, and Environment 3 Y

Advanced technology as a focal point of governmental and political conflict in the United States and other nations. Interplay of technology and politics as a struggle over who will control the future and for what ends.

PSC 319 Gender and Politics 3 Y

Crosslisted with: WGS 319

Relationships between gender and American political institutions, law, and policymaking processes. How social movements based on gender, prevailing gender ideologies, and gender relations have shaped American politics. Exploring how the American state has shaped the political meanings and relative positions of power associated with men and women.

PSC 323 Politics of the Executive Branch 3 IR

In-depth examination of U.S. executive branch, including its historical development and current practices in Executive Office of the President and the executive bureaucracy. Individual presidents, executive-branch politics, and policymaking.

PSC 324 Constitutional Law I 3 Y

Introduction to American constitutional interpretation. Historical survey of basic Supreme Court doctrines focusing on the first 150 years of judicial action. The Court's role as a political institution.

PSC 325 Constitutional Law II 3 Y

Contemporary constitutional interpretation, focusing on the Bill of Rights and the fourteenth amendment. Issues of race, gender, privacy, property, free speech, religious diversity, and political representation. PREREQ: PSC 324.

PSC 326 Foundations of American Political Thought 3 IR

Crosslisted with: HST 383

American political thought from the Puritans to Lincoln. American Revolution, establishment of the Constitution, and Jeffersonian and Hamiltonian systems.

PSC 327 Modern American Political Thought 3 IR

Crosslisted with: HST 342

American political thought from the impact of Darwinian science to the present. Basic thought patterns of 20th-century public life and philosophical foundations of contemporary political movements.

PSC 328 American Social Movements 3 IR

Crosslisted with: WGS 318

Social movements were always integral to American politics. Includes emergence, strategies, political context and influence of temperance, abolition of slavery, women's suffrage, labor, civil rights, anti-war, feminism, nuclear freeze, gay rights, and global justice movements.

PSC 329 The Modern American Presidency 3 Y

Crosslisted with: HST 341

Evolution, operation, and perceptions of the American presidency during the last quarter-century. Modern chief executives and factors contributing to their success or failure.

PSC 331 Government and Politics of Canada 3 IR

Political culture and socialization in Canada. The party system elections and interest groups. The new constitution and parliament, the executive, the judicial system, and Canadian federalism.

PSC 332 Politics of Postcommunist Europe 3 IR

Explores the politics of former communist countries in Europe, their transitions to democracy, economic reforms, and accession to the European Union. Inquires into the legacies of the communist past for current politics, society, and economy.

PSC 333 Politics of Latin America 3 Y

Crosslisted with: LAS 333

Political processes and institutions in Latin America. The region's experience with modernization.

PSC 335 Politics of East Asia 3 Y

Domestic and international politics of East Asia broadly defined. Political development and structure of major countries: Japan, Korea, and China. Politics of public policy, international, and transnational relations in the region. PREREQ: PSC 123.

PSC 336 Political Leadership 3 IR

How political leaders are recruited and govern in a wide range of settings from city mayor to head of a national government. Leadership style, relations with constituents, and the organization of the governance system.

PSC 337 Political Psychology 3 IR

Principles of social and cognitive psychology applied to political life. How political beliefs are developed and maintained, how such beliefs affect political behavior, and how individuals matter in policymaking as well as in the mobilization of political movements.

PSC 338 Comparative Political Parties 3 IR

How and why political parties form. The impact of electoral rules, social structures, and other factors on their organization, influence, and competition. Comparison of parties and national party systems around the world.

PSC 339 Contemporary Political Transitions 3 IR

The underlying forces and processes of political regime change in the modern world.

PSC 341 Politics of Africa 3 Y

Crosslisted with: AAS 341

Historical foundations of the move towards political freedom, democracy and self rule in Africa. Dynamics of the political process.

PSC 342 Religion and Politics in the Israeli-Palestinian Conflict 3 SI

Crosslisted with: JSP 342, MES 342, REL 342

Considers the extent to which religion matters in an enduring ethno-nationalist conflict. Approaches the Israeli-Palestinian conflict from an interdisciplinary perspective that explores the intersection of religion and politics.

PSC 343 Politics of Western Europe 3 Y

Political institutions, individual and collective actors, and issues in Great Britain, France, Germany, Italy, Spain, and European Union. The impact of historical developments on current politics.

PREREQ: PSC 124.

PSC 344 Politics of the Middle East 3 Y

Crosslisted with: MES 344

Religious, political, economic, and social dimensions of life in modern Middle East. Legacy of Islam, encounter with Western modernity, Arab-Israeli conflict, and political economy of the region.

PSC 345 Islam and Politics in Asia 3 IR

Crosslisted with: MES 345

Survey of the diverse and protean role Islam plays in Asian public life by analyzing the variegated cultural, political, religious, and social milieu that it has encountered in Central, South, and Southeast Asia.

PSC 346 Comparative Third World Politics 3 Y

Crosslisted with: AAS 346

Examines thematically and comparatively the political systems of South America, Asia, and Africa, exploring topics such as colonization, decolonization, nation-building, the postcolonial state and its institutions, the recent wave of democratization, and the challenges of socioeconomic development.

PSC 347 Politics of Russia 3 Y

Politics of Russia and the former Soviet Union. Political institutions, and political, economic, and social change, particularly since 1991.

PSC 348 Politics and the Military 3 IR

The military's role in the modern state and in modern society. Broad geographic coverage, including the United States, Europe, Latin America, Africa, the Middle East, and Asia.

PSC 349 Politics of Iran 3 IR

Crosslisted with: MES 349

Historical and theoretical understanding of modern Iranian politics and society from the late 19th century to the present time.

PSC 350 Problems in International Relations 3 IR

Selected problems and issues. Specific topics chosen by the instructor.

PREREQ: PSC 124. R

PSC 352 International Law 3 IR

Fundamental principles and recognized rules that make up international law concerning conduct of nations. Protection of nationals abroad, jurisdiction in territorial waters and on high seas, rights and duties of diplomats and consuls, and the law of treaties.

PSC 353 International Organization 3 Y

Causes and consequences of collective actions taken by state, intergovernmental, and transnational nongovernmental individual and collective actors. May include global and regional level issues of (human) security, economic and social development, environmental protection, and resource management.

PSC 354 Human Rights and Global Affairs 3 IR

Human rights are today a focal point of rhetorical contestation among states, intergovernmental organizations, and transnational networks. This seminar surveys the opportunities and limits of human rights language in promoting social and political change.

PSC 355 International Political Economy 3 IR

Institutions and politics of international economic relations. Trade, investment, macro-economic policy coordination, economic development, global resource issues, and the causes and consequences of global economic integration.

PSC 356 Political Conflict 3 Y

Crosslisted with: WGS 356

Theory and practice of political conflict and peacemaking. Issues may include class, race, gender and ethnicity, war, terrorism, and protest.

PSC 357 U.S. Foreign Policy 3 Y

Diplomacy of the United States toward major areas or powers, i.e., Latin America, Far East, and the Soviet Union. National defense, trade, and international organization.

PSC 358 Inter-American Relations 3 Y

Crosslisted with: LAS 358

United States-Latin American relations. Evolution of contemporary issues in inter-American relations. Foreign policies in the region.

PSC 359 Foreign Policymaking 3 IR

How governments and intergovernmental organizations make foreign policy. Formulation of policy, selection among policy strategies, implementation, and evaluation of policy outcomes. Contemporary foreign policies.

PSC 361 Politics in the Cyber-Age 3 Y

The impact of the information technology revolution on contemporary domestic and global political systems.

PSC 362 Religion, Identity and Power 3

Crosslisted with: REL 355, SOC 362

Examines ascendancy of religious movements; prominence of religious ideas; secularization and religion as a political force; conceptual and historical issues in relation to religious ideas and movements, including various Islamic revivals and the Christian right. Offered in London only.

PSC 363 Ethics and International Relations 3 O

Crosslisted with: PHI 363

The role of ethical concerns, imperatives, and restraints in international relations. Includes realism, just war theory, the ethics of nuclear deterrence, and other topics at the discretion of the instructor.

PSC 364 African International Relations 3 IR

Crosslisted with: AAS 364

The place of Africans in the international system; specific issues emanating from the decolonization process. Issues of militarism, humanitarianism, peacekeeping, and genocide; challenges of globalization.

PREREQ: PSC/AAS 341.

PSC 365 International Political Economy of the Third World 3 Y

Crosslisted with: AAS 365

Political and economic problems developing countries face in international economic relations, attempts to solve them. Discusses the making of the international system, the "third world," globalization, trade, debt, multinational corporations, multilateral lending agencies (IMF, World Bank).

PSC 366 Representations of the Middle East 3 IR

Crosslisted with: MES 366

The politics of "gazing" and cultural imagination through critical analysis of how the mass media articulates, transmits, promotes and legitimizes knowledge and information about the Middle East.

PSC 367 Oil, Water and War 3 IR

Crosslisted with: MES 367

Examines current level of knowledge about historical connections among war and the resources of petroleum and fresh water. Also looks at how alternative claims about these goods will be expressed in the future.

PSC 368 Islam and the West 3 Y

Crosslisted with: HST 368, MES 368

Topics include globalization and interdependency of faiths, the "clash of civilizations", relations between religion and state in Islam and Christianity and whether it is possible to separate the world into monolithic entities "Islam" and "West". Offered in London only.

PSC 369 Global Migration 3 IR

How should local communities, national governments, and international institutions respond to economic migrants and refugees? Are their policies effective? These questions will be explored through historical and contemporary perspectives from around the world.

PSC 371 Democratic Theory and Politics 3 IR

Democracy as a political concept and political process, in a comparative context. Some critiques and challenges facing democratic theory and practice.

PSC 372 Marxist Theory 3 IR

Fundamentals of Marxism through the original writings of Marx and Engels. Several interpretations of the various facets of Marxist theory, as developed by social democrats, Leninists, and other socialist thinkers.

PSC 373 Political Philosophy: The Social Contract Tradition and its Critics 3 Y

Crosslisted with: PHI 317
Political obligation in the writings of the three major social contract theorists, Hobbes, Locke, and Rousseau. Additional reading from their critics such as Burke, Mill, and Marx.

PSC 374 Law and Society 3 IR

Crosslisted with: WGS 374
Interaction of law with social values, customs, and organization. Relationship between a society's law and its broader environment.

PSC 375 Philosophy of Law 3 IR

Crosslisted with: PHI 397
Central issues in the philosophy of law such as the nature of law and obligation to obey the law; justification of punishment and of state restrictions on individual liberties; justice and the law.

PSC 376 Revolution and Civil Violence 3 IR

Causes and consequences of revolutions. Political significance of riots. Psychology of revolutionary participation. Changing historical patterns of political violence. Western and non-Western forms of civil strife.

PSC 377 Religion and Politics 3 IR

Reciprocal relations between religious groups and political systems, especially in the United States. Religious groups as the objects of policy decisions, as sources of governmental legitimacy, and as agents of political and social change.

PSC 379 American Slavery and the Holocaust 3 IR

Crosslisted with: JSP 379, PHI 379
An in-depth study of the normative structure of both American Slavery and the Holocaust, focusing upon the ways in which each institution conceived of its victims and the character of the moral climate that prevailed in each case.

PSC 381 Political Fiction and Film 3 IR

The powers of fictional narrative to depict and explain politics. Content varies. Possible themes include comparison of religion, science, and politics; totalitarian movements; political assassinations; political morality and power.

PSC 382 Contemporary Political Philosophy 3 Y

Crosslisted with: PHI 417
Contemporary contractualist, rights-based, and communitarian theories of social justice.

PSC 383 Civil Society and Democracy 3 IR

Understanding the politics that occurs between individual citizens and citizens groups. Is civic trust diminishing? How civil society functions in new democracies, the impact of suburbanization, religion, and consumerism.

PSC 384 Sexuality and the Law 3 E

Crosslisted with: QSX 384
Examines politically significant legal debates regarding gender and sexuality. Issues covered may include privacy rights, discrimination on the basis of sexual orientation and gender identity, family law and parental rights, and same-sex marriage.

PSC 385 Rationality and Politics 3 IR

Introduction to the concept of technical rationality and its role in contemporary political science.

PSC 386 Gender, Militarism, and War 3 Y

Crosslisted with: SOC 354, WGS 354
Militarism and war are examined by focusing on their relationship to gender. What does gender have to do with war? How do masculinity and femininity along with race work to create soldiers and enemies?

PSC 400 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

PSC 401 Government and Politics in Great Britain 3 S

Political geography, constitutional principles, governmental institutions, and political behavior in Great Britain. Comparisons with other western European political systems. Offered only in London.

PSC 402 Government and Politics in Italy Government and Politics of Italy 3 S

Political geography, constitutional principles, governmental institutions, and political behavior in Italy. Comparisons with other western European political systems. Offered only in Florence.

PSC 403 Government and Politics in France 3 S

Political geography, constitutional principles, governmental institutions, and political behavior in France. Comparisons with other western European political systems. Offered only in Strasbourg.

PSC 404 Government and Politics in Spain 3 S

Political geography, constitutional principles, governmental institutions, and political behavior in Spain. Comparisons with other western European political systems. Offered only in Madrid.

PSC 405 Politics of the European Union 3

Politics of European integration from a variety of perspectives: theoretical, historical, institutional, and policy-making. Fundamental post-war political process in modern-day Europe. Offered only in Florence.

PSC 406 Citizenship from Modernity to Globalization 3

Crosslisted with: PHI 406
Offered only in Florence. Citizenship as a major crossroads in European political thought: key thinkers; permutations throughout European history; impact of globalization and European unification on concepts of citizenship, liberty, and justice.

PSC 407 Political Integration and Disintegration in Western Europe 3 IR

Crosslisted with: SOS 407
Origins of the modern territorial states of western Europe. Growth of supranational institutions, such as the European Economic Community, and their impact on European economic and political development. Offered only in Florence.

PSC 408 Comparative Social Movements 3 IR

Crosslisted with: SOS 408
Origin and policy impact of contemporary and historical European movements for social and political change. Labor movements, Eurocommunism, feminism, national socialism, fascism, and peace movements. Offered only in Florence.

PSC 409 The European Union 3 Y

Creation and current workings of the European Union. The relationship between the member states and issues such as a United States of Europe. Mandatory trip to Brussels (EU Commission, Parliament, and U.S. EU delegation). Offered in London only.

PSC 411 Senior Seminars 3 IR

Integrates student coursework by providing in-depth analysis of a particular topic. Recommended seminar choice is one in a subfield of the discipline in which the student has some prior preparation.

PSC 412 Global Governance: The United Nations System 3

Crosslisted with: IRP 412
The theory and practice of global governance and international diplomacy through an in-depth study of the United Nations system. Critique readings and discuss current UN-related events. Fulfills the IR capstone for International Law and Organizations (ILO). Permission of instructor. PREREQ: PSC 124.

PSC 413 Identity and Difference 3 Y

Crosslisted with: PHI 413, WGS 413
Interdisciplinary approach to examine concepts of identity and difference, challenges notions of subjectivity, nation and gender. Philosophical, political, and gender-related dimensions explored. Offered only in Florence.

PSC 414 European Identity Seminar 2 S
Eleven-day interdisciplinary field studies seminar explores the multi-layered cultural and political identities in contemporary Europe, their overlapping (and at times, contradictory nature), and their effect on political and social developments. Offered in Strasbourg only. R1, 4 credits maximum

PSC 418 Comparative Public Policy in Practice 3 Y
Crosslisted with: PAF 418
Students gain inside knowledge of London through assignment to an organization related to a student's major and interests. Weekly lectures and seminars explore the wider social and political context in which the organizations are operating. Offered in London only.

PSC 424 Dictatorships, Human Rights, and Historical Memory in the Southern Cone 3 S
Crosslisted with: HST 424, IRP 424, LAS 424
Offered only in Santiago. The time period (1940-present) and its significance and contributions to the configuration of social, political and economic aspects of Chile today. Relies on primary sources, comparisons within the Southern Cone, and a focus on US role and influence during this period.

PSC 425 Hong Kong in the World Political Economy 3 S
Offered only in Hong Kong. Role of Hong Kong in world political economy since creation by British after Opium Wars, to position as leading export economy and its retrocession to China in 1997.

PSC 427 Policy Seminar/Contemporary Europe 3 S
Offered only in Strasbourg. Course gives a coherent contemporary picture of Europe in political/social/economic area and position in the world, with particular emphasis on the European Union.

PSC 428 Contemporary Issues in Chile and Latin America 2 S
Crosslisted with: IRP 334, LAS 334
Offered only in Santiago. This seminar features in-situ lectures and activities in Chile, Argentina and Uruguay introducing important political, sociological and environmental issues in the Southern Cone region.

PSC 429 European Human Rights 3 S
Offered only in Strasbourg. Introduction to current European human rights law. Through study of European Convention on Human Rights, students learn about culture/morals/values of peoples of Europe.

PSC 431 China in Transition 3 S
Offered only in Beijing. Seminar examines the unprecedented, multi-faceted transitional changes occurring in China since the late 1970s. Impact of reforms on China's external relations.

PSC 450 Undergraduate Research Program 1-4 S
R

PSC 453 Twentieth Century Europe 3
Crosslisted with: HST 453
Politics, society, war, and peace in Europe, 1919-1992. Nazi Germany, WW II, the Cold War, post-war reconstruction, social and economic transformations, and the revolutions of 1989 in Eastern Europe. Offered only in Florence.

PSC 470 Experience Credit 1-6 S
Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

PSC 471 Internships: International, National, State 3 S
Internships spent off campus in Washington, a state capitol, or an international or foreign organization. Proposal required; faculty sponsor must be arranged. May be counted toward major or minor by petition.

PSC 473 London Seminar 6 Y
British political issues and institutions combined with interviews with leaders of Parliament, the national administration, political parties, the news media, and interest groups. Five weeks in London, England, during the summer.

PSC 489 Readings in Political Science (Honors) 1-6 S
Directed tutorial-type program of readings in selected aspects of political science.

PSC 490 Independent Study 1-6 S
In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

PSC 495 Distinction Thesis Seminar in Political Science I 3 Y
Individual research work in conjunction with seminar participation guided by faculty seminar instructor and individual mentors. Defining thesis projects. Senior political science students only. Permission of instructor.

PSC 496 Distinction Thesis Seminar in Political Science II 3 Y
Thesis students present ongoing research, constructively engaging with other thesis writers, and working with faculty mentor to complete research. Individual research work in conjunction with seminar participation. Senior political science students only. Permission of instructor.
PREREQ: PSC 495.

PSC 499 Honors Thesis 3-6 S

PSC 500 Selected Topics 1-3
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

Social Science

SOS 200 Selected Topics 1-3 Y
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

SOS 400 Selected Topics 1-3 Y
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

SOS 407 Political Integration and Disintegration in Western Europe 3 IR
Crosslisted with: PSC 407
Origins of the modern territorial states of western Europe. Growth of supranational institutions, such as the European Economic Community, and their impact on European economic and political development. Offered only in Florence.

SOS 408 Comparative Social Movements 3 IR
Crosslisted with: PSC 408
Origin and policy impact of contemporary and historical European movements for social and political change. Labor movements, Eurocommunism, feminism, national socialism, fascism, and peace movements. Offered only in Florence.

SOS 575 Philosophy of Social Science 3 O
Crosslisted with: PHI 575
Philosophical and methodological issues in social and behavioral science. Role of laws in explanation of human action, methodological individualism and holism, functional explanation, value-neutrality, behaviorism, and computer simulation.

Sociology

SOC 101 Introduction to Sociology 3 S
Principal concepts, methods, and findings in sociology. Societal structures, processes, institutions, and social roles from both macro- and microanalytic human behavior perspectives.

SOC 102 Social Problems 3 S
Application of sociological theory and methods to identification, description, and analysis of contemporary social problems. Critique and analysis of alternative strategies for social change.

SOC 200 Selected Topics 1-3 S
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

SOC 230 Intergroup Dialogue 3
Crosslisted with: WGS 230
Guided intergroup communication skills. Cycle of socialization; social identities, and social structures that create and maintain inequality; power of dynamic of racism, sexism, and other systems of oppression. Students explore conflict and enact collaboration to deepen understanding.

SOC 248 Ethnic Inequalities and Intergroup Relations 3 S

Crosslisted with: WGS 248

Identification of individuals and groups by self and others as members of ethnic categories. Consequences of ethnic identifications for individual, group, and societal interaction. Emphasizing ethnic inequalities, group interactions, social movements and change, racism, prejudice, and discrimination.

SOC 254 Comparative Study of American Ethnic Communities 3 S/I

Crosslisted with: AAS 254

Variety of ethnic communities in American society. Comparative analysis of similarities and uniqueness. Issues of group conflict, diversity, and unity.

SOC 281 Sociology of Families 3 S

Crosslisted with: WGS 281

Families and their connections to other social and economic institutions. Diversity of family forms and experiences. Formation and dissolution of relationships. Trends and changes.

SOC 300 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

SOC 305 Sociology of Sex and Gender 3 S

Crosslisted with: WGS 305

Social forces shaping women's and men's lives in contemporary societies. Changing gender expectations. Intersections of gender with race and ethnicity, class, and age. Social movements for women's and men's liberation.

SOC 306 Sexuality in Spain 3 Y

Crosslisted with: QSX 306

Offered only in Madrid. Explores important transformations in Spaniards' concepts of sexuality and gender through readings, film screenings and observing certain urban areas in Madrid.

SOC 309 Race, Gender and Sexuality in African Diaspora 3 S

Crosslisted with: AAS 309, WGS 309

To introduce students to the reality of how racism informs the common sense understanding of Black sexuality.

SOC 312 Pale and Beyond 3 IR

Field studies seminar based in Dublin and Belfast, explores whether a shared sense of being Irish exists despite the struggle and separation between the largely Catholic south and the largely

SOC 318 Introduction to Research 3 S

Techniques and problems of research in sociology. Research design, measurement, and data collection using surveys and other techniques. Computer analysis skills for social science data. Research project.

SOC 319 Qualitative Methods in Sociology 3 S

Crosslisted with: WGS 317

Field research methods including participant observation, unstructured interviewing, life histories, and case studies. Preparation and analysis of fieldnotes and interview data.

SOC 334 Criminal Justice 3 Y

Organization of criminal justice system in the United States and relations between its parts. Ideal versus actual roles of police, courts, and corrections in maintaining social control.

SOC 335 Political Sociology 3 IR

Double Numbered with: SOC 635

Relationships between society and politics. Impacts of individuals, groups, parties, and institutions on state power in global perspective. Additional work required of graduate students.

SOC 343 The Deviance Process 3 Y

Social processes that define behaviors or people as "deviant". Theories of anomic and nonconforming behavior. Individual, interpersonal, and structural consequences of labeling and exclusion.

SOC 345 Spanish Society and Pop Culture 3 S

Crosslisted with: ANT 355

Offered only in Madrid. Explores what is considered important, good, and fashionable in Spain today and how these values relate to historical developments as well as foreign influences.

SOC 353 Sociology of the African American Experience 3 E

Crosslisted with: AAS 353

Theory and research of African American sociologists in the historical, social, and political context of American sociology. Relation of their work to the African American experience and its reception and impact in the public policy arena.

SOC 354 Gender, Militarism, and War 3 IR

Crosslisted with: PSC 386, WGS 354

Militarism and war are examined by focusing on their relationship to gender. What does gender have to do with war? How do masculinity and femininity along with race work to create soldiers and enemies?

SOC 355 Sociology-of Health and Illness 3 Y

Crosslisted with: WGS 355

Concepts of health and illness in society. The nature and organization of health professions and health delivery systems. Social aspects of health related behavior.

SOC 357 Sociology of American Business 3 IR

Relationship between business and society. Large corporation, small business and "franchise capitalism," merchandising and social change, social bases of investment and entrepreneurship, and business and politics.

SOC 362 Religion, Identity and Power 3

Crosslisted with: PSC 362, REL 355

Examines ascendancy of religious movements; prominence of religious ideas; secularization and religion as a political force; conceptual and historical issues in relation to religious ideas and movements, including various Islamic revivals and the Christian right. Offered in London only.

SOC 363 Urban Sociology 3 Y

Influence of the urban way of life. Ecological and population structure and changes in the modern composite city and metropolitan region. Urban planning in relation to economic patterns, family, education, government, recreation, and religion.

SOC 364 Aging and Society 3 Y

Crosslisted with: WGS 364; Double Numbered with: SOC 664

Current policy issues in an aging society. Health care, end-of-life, social security, productive aging, and generational equity. Special problems facing elderly women and minorities.

SOC 367 Sociology of Sport 3 S

Sport and race. Class and gender. College sports. Interrelationships among sport, media, and business/industry.

SOC 373 Sociology of Work 3 IR

Meaning and significance of work for individuals and societies. Changing nature of work. Structures of work and the labor force. Occupational recruitment, socialization, mobility, and discrimination.

SOC 377 Class, Status, and Power 3 IR

Double Numbered with: SOC 677

Structures, causes, and consequences of socio-economic inequalities in modern societies. Poverty and wealth, social mobility, and the persistence of inequality. Comparison and assessment of theories of social stratification.

SOC 397 Criminology 3 Y

Nature and significance of crime. Historical and modern explanations of crime. Varieties of crime. Issues in measuring crime and assessing its effects. Evaluation of crime control strategies.

SOC 400 Selected Topics 1-3 S

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

SOC 406 Sociological Theory 3 S

Introduction to classic and contemporary theory in sociology. Relevance of theory to research and analysis of social issues.

SOC 409 Sociology of the Globalization of Music 3 IR

Intercultural course introducing the study of traditional and modern non-western music in cultural context. Focus on non-western urban, hybridized forms of popular music. Course fee covers tickets and related costs. Offered in London only. [Effective spring 2009]

SOC 410 Seminar on Social Change 3 IR
Crosslisted with: AAS 410
Changes in African American communities or in the circumstances of African Americans within a particular institutional arena. Movements to promote change and obstacles to change. Substantive focus varies. R

SOC 412 Multicultural London 3 Y
Political, social and economic patterns of urban development; recent debates about multicultural cities; development of urbanism; political strategies; ethnic pluralism in British society; issues of identity, race, ethnicity and religion. Mandatory site visits. Offered in London only.

SOC 413 There Goes the Neighborhood: US Residential Segregation 3 SI
Crosslisted with: AAS 413
Chronicles patterns of racial residential segregation in the US by examining the methods that maintain racially distinct neighborhoods. Explores link between segregation and education, social mobility, health, and mortality.

SOC 415 Urban Sociology and Cities in Globalization 3 E
Sociological perspectives on city character and development in the light of expanding urbanization on an international scale: demographic dynamics and immigration, economic growth, politics and governance, and other areas including infrastructure and environment connections and culture.

SOC 416 Race, Crime and Punishment 3 SI
Crosslisted with: AAS 416
The multiple and complex relationships between race, the power to punish, and crime control policies and practice. Exploration of the theories of crime and punishment from classic to postmodern.

SOC 421 Population Issues 3 IR
Human mortality, fertility, and migration and how they affect social life. Life expectancy, low fertility, health disparities, family planning, and urbanization. United States and cross-national comparisons.

SOC 422 Work and Family in the 21st Century 3 S
Crosslisted with: CFS 422, WGS 422
Examines the social, demographic, and economic forces that are reshaping the boundaries between family and work.

SOC 423 Technology, Science and Society 3 O
How technology and science shape and re-shape our experiences of 'self' and 'body' and our visions of 'nature' explored through history, theory, science fiction, art, and our sociological imaginations.

SOC 424 Representations of Ability & Disability 3 E
Crosslisted with: DSP 424
Representations of disability in autobiographical accounts and professional narratives, and implications of these representations for educational practice and policy.

SOC 425 Feminist Organizations 3 Y
Crosslisted with: WGS 425; Double Numbered with: SOC 625
Women's movement history in the United States and internationally. Successes and problems of organizations built by feminist activism. Implications for a new generation of feminist (and other) activism. Additional work required of graduate students.

SOC 426 Social Issues and Deliberative Democracy 3 IR
Examination of social issues and public policy through the process of public deliberation. Class projects involving community forums. Social research, critique and analysis of public policy and social change.

SOC 427 New York City: Black Women Domestic Workers 3 Y
Crosslisted with: AAS 427, WGS 427; Double Numbered with: SOC 627
Historical understanding of Black women's engagement in paid domestic work in the United States, increasing need for domestic workers in the ever-changing economy and family, and the social construction of Black women as "ideal" domestic workers. Permission of instructor.

SOC 432 Gender and Disability 3 Y
Crosslisted with: DSP 432, WGS 432
This course will investigate the intersection of gender and disability and how it impacts such issues as representation/self-representation, art and poetry, illness, education, sexuality, reproduction and motherhood, and caring work.

SOC 433 Race, Class, and Gender 3 Y
Crosslisted with: WGS 433
Intersection of oppression and privilege via socially constructed categories of "race," "class," and "gender." Racism, sexism, institutional authority, and multiculturalism.

SOC 434 Globalization and Social Change 3 IR
How globalization is reshaping people's lives in the US and other societies. Causes, directions, consequences. Linking and standardization of patterns of consumption, culture, and production around the world.

SOC 435 Sexual Politics 3 IR
Crosslisted with: WGS 435
Social construction of sex and sexuality. Formation and organization of sexual communities, of sexuality as a form of social control. Social issues related to sexuality.

SOC 438 Disability and Popular Culture 3 Y
Crosslisted with: DSP 438
Explore representations of disability through the analysis of books, movies, television, cartoons, and journalism. It will examine how disability is portrayed by people with and without disabilities, and discuss influences on public perceptions of disability.

SOC 440 Sociology of Disability 3 IR
Crosslisted with: DSP 440
A theoretical understanding of disability through the lens of sociology and that of disability studies and demonstrates how cultural institutions shape conceptions of disability in society.

SOC 441 Federal Indian Policy and Native American Identity 3 IR
Crosslisted with: NAT 441
Shifts in Federal Indian policy and the social construction of American Indian identity. Identity struggles and identity politics in relation to blood and descent, community, land and sovereignty.

SOC 444 Contemporary Native American Movements 3 IR
Crosslisted with: NAT 444
Sociological analysis of Native American movements from 1960s to the present. National and regional movements in relation to jurisdictional issues and human rights. Red Power and pan-Indian movements are considered.

SOC 445 The Caribbean: Sex Workers, Transnational Capital, and Tourism 3 Y
Crosslisted with: AAS 445, WGS 445; Double Numbered with: SOC 645
A political economy approach to educating students about the human and capital costs of tourism to the Caribbean. The integral relationship between sex work and Caribbean tourism exposes the region's development that has resulted in its current configuration.

SOC 446 The Social Impact of the Internet 3 Y
Double Numbered with: SOC 646
Sociological implications of instantaneous communication, online publishing, identities and interactions, communities transcending geographic borders, and openly available information and opinion. Additional work required of graduate students. Offered only online.

SOC 447 Social Change and Conflict in Modern China 3 IR
Social and economic transformations in China in terms of social classes, cultural patterns, urban change, family patterns, ethnic tensions, and struggles over political rights. Questions of Taiwan and Tibet. How China's development affects the U.S.

SOC 448 The Dynamics of Prejudice and Discrimination 3 Y
Double Numbered with: SOC 648
Research and theory of prejudice and discrimination: inclusion/exclusion of individuals/social groups; classification of in/out groups; contributing roles of processes (difference, power, labeling, silencing). Recommended for upper-level students with some social science background and other coursework dealing with social inequities.

SOC 449 The Sociology of Evil 3 Y

Double Numbered with: SOC 649

Social conditions and processes allowing systematic dehumanization; perspectives of victim, perpetrator, audience, possibility of reconciliation. Extreme examples of evil; subtle ways of dehumanizing the other. Ethnic cleansing, international trafficking, terrorism. Additional work required of graduate students. Offered only online.

SOC 454 Family and Gender in Contemporary Italy 3

Crosslisted with: HST 454, WGS 454

Family structures and gender relations in Italy from the Unification to the present. Offered only in Florence.

SOC 456 LGBT Studies in Sociology 3 Y

Crosslisted with: QSX 456, WGS 456

Recent sociological research in lesbian, gay, bisexual, and transgender studies addressing sexuality, identity, community, representation, politics, social change and their inter-relationships.

SOC 457 Gender, Politics, Society in Europe (1400-1800) 3 IR

Crosslisted with: HST 457, WGS 457

Relationship between the sexes in politics, philosophy, literature, and art. Emergence of a dissident "voice" relative to gender identity and social role, with implications for race and religion. Offered only in Florence.

SOC 466 Organizations and Society 3 IR

Nature and types of organizations and organizational processes. Dynamic relationships of organizations to societies and individual identities.

SOC 470 Experience Credit 1-6 SI

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

SOC 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

SOC 492 Work and Inequality 3 IR

Crosslisted with: WGS 492

Current and past issues in research and policy concerning inequalities associated with work. Social construction and structural arrangements of work in American society.

SOC 495 Senior Thesis 3 Y

Contemporary issues in sociology. Study of a particular problem by research methods. Collection and analysis of data. Written thesis and oral presentation required. 15 sociology credits needed (including SOC 101 and at least two of the following: SOC 318, SOC 319, SOC 406).

SOC 500 Selected Topics 1-3 SI

In-depth selected study of certain social problems. R

SOC 513 Statistics for Social Science 3 Y

Designed for first-year graduate students and sociology majors considering graduate study. Measures of central tendency and dispersion, hypothesis testing, and indices of association between variables. Application of statistics to social science data.

SOC 571 Topics in Sociolinguistics 3 SI

Crosslisted with: ANT 571, LIN 571

Functions of language in society. Geographical, socioeconomic, and male-female differentiation. Functions of various types of speech events. Requirements include a research project. R1, 6 credits maximum

South Asian Studies

SAS 101 Hindi/Urdu I 4 Y

Crosslisted with: HIN 101

Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Hindi/Urdu.

SAS 102 Hindi/Urdu II 4 Y

Crosslisted with: HIN 102

Continuing proficiency-based course which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts. Activities are conducted in Hindi/Urdu.

PREREQ: HIN 101.

SAS 123 Religious Auto/Biography 3 IR

Crosslisted with: REL 123

A cross-cultural exploration of religious autobiographies. Understanding multiple dimensions of religious life through narratives of the self, the sacred, and society.

SAS 165 Islam 3 Y

Crosslisted with: REL 165

Islam as a world religion: its origins, major beliefs, rituals, and historical development, emphasizing its geographical spread, diversity of interpretation, and cultural expressions.

SAS 185 Hinduism 3 Y

Crosslisted with: REL 185

Religious life of contemporary Hindus in India: gods, goddesses, and other divines; worship; sectarian movements; and rituals in the home, at temples, and at other holy sites.

SAS 186 Buddhism 3 Y

Crosslisted with: REL 186

Buddhism as a world religion: its origin in India, its spread to other parts of Asia, and consequent changes in doctrine and practice through the ages.

SAS 201 Hindi/Urdu III 4 Y

Crosslisted with: HIN 201

Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Hindi/Urdu.

PREREQ: HIN 102.

SAS 202 Hindi/Urdu IV 4 Y

Crosslisted with: HIN 202

Continuing proficiency-based course which further refines and expands linguistic skills in culturally authentic contexts. Incorporates reading, discussing, and analyzing texts as a basis for the expression and interpretation of meaning. Conducted in Hindi/Urdu. PREREQ: HIN 201.

SAS 283 India's Religious Worlds 3 O

Crosslisted with: REL 283

Inter-secting religious worlds of Hindus, Muslims, Sikhs, Jains, and Christians in modern India; focus on cosmology and morality in interaction with ritual practices, religious narratives, social life, media, and politics.

SAS 324 Modern South Asian Cultures 3 O

Crosslisted with: ANT 324, WGS 324

Societies of India, Pakistan, Bangladesh, and Sri Lanka. Social organization, economic and political structures, religions and world view, survey of languages, the arts. Transition and modernization, rural and urban problems.

SAS 328 Ancient and Medieval India 3 IR

Crosslisted with: HST 328

Formation of traditional Indian kinship, religion, philosophy, and culture. Vedic society and the rise of Buddhism. Medieval Hindu kingdoms. Expansion and the legacy of Islam. Rise and disintegration of the Mughal empire.

SAS 329 Making of Modern India 3 Y

Crosslisted with: HST 329

British colonial expansion in India. Emergence of nationalism and related movements of religious, social, and cultural reform. Gandhi and non-violence. Struggle for independence and the politics of gender, class, caste, and religious community.

SAS 367 Islamic Arts and Aesthetics 3 O

Crosslisted with: REL 367

Unity and diversity in the visual arts, crafts, music, and architectures of Muslims from Africa to Asia. Historical formation and cultural expressions of Islamic faith, identity, community, and aesthetic principles.

SAS 375 British Empire 3 Y

Crosslisted with: HST 375

Seminar on expansion of the British Empire (emphasis on India and Africa) in the 18th and 19th centuries. Explores histories of conquest, administration and imperial policy, and the ideologies of imperialism and colonialism.

SAS 384 Goddesses, Women and Power in Hinduism 3 O

Crosslisted with: REL 384, WGS 384

Interrelationship of power as female and female power in Hindu cosmology, mythology, and society. Complexities of mythic, domestic, and economic gender hierarchies.

SAS 385 Music and Dance of India 3 O

Crosslisted with: HOM 384

Selected music and dance traditions of India in their cultural, historical, and performative contexts, representing classical, devotional, folk, tribal, and popular arts. Performance as a window into Indian culture, society, and modernization.

SAS 400 Selected Topics:South Asian Studies 1-3

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

SAS 465 Gender, Politics and Islamic Societies 3 E

Crosslisted with: REL 465, WGS 465

Politics of gender, religious identities, and resistance in the Islamic world. Gender in sacred texts including Qur'an and Shariah. Contemporary realities of Muslim women living in different parts of the world.

Faculty

George Abonyi, Part-Time Professor, Public Administration
Ph.D., University of California - Los Angeles
Political economy of policy reform in Asia, public/private partnerships in development; regional cooperation in economic integration in Asia

Kristi Andersen, Laura J. and L. Douglas Meredith Professor; Maxwell Professor of Teaching Excellence, Political Science
Ph.D., University of Chicago, 1976
American politics, political parties, public opinion, women and politics

Douglas Armstrong, Professor, Anthropology
Ph.D., University of California, Los Angeles, 1983
Archaeology of North America, historical archaeology, ethnohistory, Caribbean, North America

Elizabeth Ashby, Assistant Professor, Economics
Ph.D., Syracuse University, 2006
Public finance, labor economics, applied microeconomics, public economics

Shena Ashley, Assistant Professor, Public Administration
Ph.D., Georgia State University, 2007
Nonprofit organizations, evaluation

Badi Baltagi, Distinguished Professor, Economics
Ph.D., University of Pennsylvania, 1979
Applied and theoretical econometrics

William Banks, Professor, Public Administration and Board of Advisors Distinguished Professor, Law
J.D. University of Denver, 1974
Comparative legal systems, domestic and international terrorism, emerging powers, covert war powers, civil military relations

Michael Barkun, Professor Emeritus, Political Science
Ph.D., Northwestern University, 1965
Millenarian and utopian movements, jurisprudence, international law

Hossein Bashiriyeh, Professor, Political Science
Ph.D., University of Liverpool (England), 1982
20th Century Political Thought; Democratic Transitions; Thomas Hobbes

Subho Basu, Associate Professor, History
Ph.D., University of Cambridge, 1994
Modern South Asian history, labor history, history of contemporary social movements, nationalism and post colonial politics

Kenneth Baynes, Professor, Philosophy and Political Science (by courtesy)
Ph.D., Boston University, 1987
Social and political philosophy, critical theory, continental philosophy

Jacob Bendix, Associate Professor, Geography
Ph.D., University of Georgia, 1992
Biogeography, geomorphology, human impacts on environmental systems, media coverage of environment

David Bennett, Laura J. and L. Douglas Meredith Professor of Teaching Excellence, History
Ph.D., University of Chicago, 1963
Political extremism in America, 20th-century American history, modern military history

James Bennett, Associate Professor, Political Science
Ph.D., Massachusetts Institute of Technology, 1978
International relations, methodology

Catherine Bertini, Professor of Practice, Public Administration
B.A., SUNY Albany, 1971
Managing international and humanitarian aid organizations, former Under-Secretary-General for Management at the United Nations; Former Executive Director, World Food Program

Robert Bifulco, Associate Professor
Ph.D., Syracuse University, 2001
Public finance, budgeting and financial management

Sari Biklen, A.A.U.W. Meredith Professor, Chair and Sociology (by courtesy)
Ed.D., University of Massachusetts, 1973
Qualitative research methodology, gender, race, and education, sociology of popular culture, cultural studies

Guthrie Birkhead, Professor Emeritus, Political Science and Public Administration
Ph.D., Princeton University, 1951
Metropolitan studies, comparative administration, ethics, intergovernmental relations

Edwin Bock, Professor Emeritus, Political Science and Public Administration
A.B., Dartmouth College, 1943
Political and administrative leadership; executive politics; national planning; government, mass media, and the arts

Robert Bogdan, Distinguished Professor Emeritus, Sociology
Ph.D., Syracuse University, 1971
Qualitative research methods, special education, visual sociology, disability studies

G. Matthew Bonham, Professor, Political Science
Ph.D., Massachusetts Institute of Technology, 1967
International relations, foreign policy decision making, international negotiation, methodology

Susan Borker, Associate Professor Emerita, Sociology
Ph.D., University of Chicago, 1971
Quantitative methods, sex and gender roles, labor force issues

Mehrzad Boroujerdi, Associate Professor, Political Science
Ph.D., American University, 1990
The Middle East, comparative politics, international relations

Susan Branson, Associate Professor, History
Ph.D., Northern Illinois University, 1992
U.S. women's history, U.S. social history, U.S. political history

Steven Brechin, Professor, Sociology
Ph.D., University of Michigan, 1989
Environmental sociology, organizational sociology, natural resources

Stuart Bretschneider, Laura J. and L. Douglas Meredith Professor of Teaching Excellence, Chair and Associate Dean, Public Administration
Ph.D., Ohio State University, 1981
Quantitative methods, information management, computer application and strategic planning

John Briggs, Associate Professor Emeritus, History
Ph.D., University of Minnesota, 1972
American immigration history, history of education

Walter Broadnax, Distinguished Professor, Public Administration
Ph.D., Syracuse University, 1975
Strategic public management, executive leadership

Stuart Brown, Professor, International Relations
Ph.D., Columbia University, 1985
International economics, macroeconomics, emerging markets, political economy

Hans Buechler, Professor, Anthropology
Ph.D., Columbia University, 1966
Culture change, internal and international migration, urban problems, ethnic identity, ethnic elites, political anthropology, life history methodology, Andes, Latin America, Spain, Switzerland, Central Europe, eastern Germany

John Burdick, Professor, Anthropology
Ph.D., City University of New York, 1990
Religious movements, politics, gender, medical, African Americans, Brazil, Latin America

Leonard Burman, Daniel Patrick Moynihan Professor of Public Affairs; Professor of Practice, Public Administration and Economics
Ph.D., University of Minnesota, 1985
Federal tax policy, healthcare and budget reform

Joan Burstyn, Professor Emerita, History
Ph.D., University of London, 1968
History of women in British and American education, history of higher education

Keith Bybee, Associate Professor, Political Science and the Paul E. and the Hon. Joanne F. Alper '72 Judiciary Studies Professor, Law Ph.D., University of California, San Diego, 1995
American public law, legal theory, political philosophy, American politics and the politics of race

Horace Campbell, Professor, Political Science and African American Studies Ph.D., Sussex University, 1979
Comparative politics of Africa and the Caribbean, African international relations, armaments, culture, pan Africanism, peace studies, political economy

Linda Carty, Associate Professor, African American Studies and Sociology (by courtesy) Ph.D., University of Toronto, 1989
Race, class, and gender studies; comparative sociology; international development, post-colonial discourse; Third World feminism

A.H. Peter Castro, Associate Professor, Anthropology Ph.D., University of California, Santa Barbara, 1988
Applied anthropology, international development, conflict management, ecology, forestry, agrarian societies, refugees, colonialism, East Africa

Craige Champion, Associate Professor, History Ph.D., Princeton University, 1993
Hellenistic Greece, Greek democracy and republican Rome, ancient imperialism, ethnic identity formation in classical antiquity, the politics of culture in ancient Greece and Rome, classical historiography

Matthew Cleary, Associate Professor, Political Science Ph.D., University of Chicago, 2004
Comparative politics, Latin American politics, comparative political economy

Andrew Cohen, Associate Professor, History Ph.D., University of Chicago, 1999
Legal history, American labor history, 20th century American history

Elizabeth Cohen, Assistant Professor, Political Science Ph.D., Yale University, 2003
Political theory, history of political thought, immigration and citizenship

Goodwin Cooke, Professor of Practice Emeritus, Political Science B.A., Harvard University, 1953
Former U.S. Foreign Service Officer, experience in Asia, Europe, Canada, and Africa; ambassador to Central African Republic

William Coplin, Laura J. and L. Douglas Meredith Professor of Teaching Excellence, Public Affairs Ph.D., American University, 1964
International relations, public policy analysis

Kalena Cortes, Assistant Professor, Education and Economics (by courtesy) Ph.D., University of California, Berkeley, 2002
Economics of education, labor economics, policy evaluation

Francine D'Amico, Part-time Associate Professor, International Relations Ph.D., Cornell University, 1989
Latin American politics and international relations

Bruce Dayton, Part-time Assistant Professor, Political Science; Assistant Director, Moynihan Institute of Global Affairs Ph.D., Syracuse University, 1999
International environmental affairs, political psychology, public policy dispute resolution

Christopher DeCorse, Professor, Anthropology Ph.D., University of California, Los Angeles, 1986
Archaeology, historical archaeology, culture change, trade, West Africa, Caribbean

Renee deNevers, Associate Professor, Public Administration Ph.D., Columbia University, 1992
International security policy, international organizations

Thomas Dennison, Professor of Practice; Co-Director, Masters in Public Health Program; Program Advisor, Health Service Management and Policy (HSMP), Public Administration Ph.D., Pennsylvania State University, 1987
Health care administration, finance and policy

Marjorie DeVault, Professor, Sociology Ph.D., Northwestern University, 1984
Sex and gender studies, qualitative methods, feminist studies

Albrecht Diem, Assistant Professor, History Ph.D., University of Utrecht, 2000
Early Medieval Europe, early Christianity, monasticism

Gavan Duffy, Associate Professor, Political Science Ph.D., Massachusetts Institute of Technology, 1987
Political methodology, political behavior and communication, American politics

William Duncombe, Professor, Public Administration Ph.D., Syracuse University, 1989
Public budgeting and finance, quantitative methods, development administration, education policy and finance

Donald Dutkowsky, Professor, Economics Ph.D., State University of New York at Buffalo, 1982
Macroeconomic, monetary theory and policy, applied econometrics

Michael Ebner, Assistant Professor, History Ph.D., Columbia University, 2004
History of modern Europe, Italy, Fascism, and political violence

Samuel Eddy, Professor Emeritus, History Ph.D., University of Michigan, 1958
Classical, Greece and Rome

Colin Elman, Associate Professor, Political Science Ph.D., Columbia University, 1999
International relations theory, qualitative research methods

Miriam Fendius Elman, Associate Professor, Political Science Ph.D., Columbia University, 1996
International security, democracy, politics of the Middle East

Gary Englehardt, Professor, Economics Ph.D., Massachusetts Institute of Technology, 1993
Housing economics, public finance, tax policy, public economics, labor economics

Margarita Estévez-Abe, Associate Professor, Political Science Ph.D., Harvard University, 1999
Comparative politics, political economy, gender, and Japan

Jerry Evensky, Laura J. and L. Douglas Meredith Professor for Teaching Excellence, Economics Ph.D., Syracuse University, 1984
History of economic thought, labor economics, philosophy of economics (methodology), economic education

Cissie Fairchild, Professor Emerita, History Ph.D., Johns Hopkins University, 1972
European social history, early modern France, women's history

Carol Faulkner, Associate Professor and Chair, History Ph.D., Binghamton University, 1998
19th century American history, slavery

Gareth Fisher, Assistant Professor Religion and Anthropology (by courtesy) Ph.D., University of Virginia, 2006
Buddhism, Chinese Buddhism, contemporary religion, globalization

Michael Flusche, Associate Professor Emeritus, History Ph.D., Johns Hopkins University, 1973
American Civil War and Reconstruction, American South

Deborah Freund, Distinguished Professor, Public Administration and Economics Ph.D., University of Michigan, 1980
Health economics

Peng Gao, Assistant Professor, Geography Ph.D., University of Buffalo, 2003
Geographic information systems modeling, human impacts on physical environments, fluvial systems

Susan Gensemer, Associate Professor, Economics Ph.D., Purdue University, 1984
Micro-economic theory, decision theory, quantitative economics, economics and gender

Ann Grodzins Gold, Professor, Religion and Anthropology (by courtesy)
Ph.D., University of Chicago, 1984
Teaching and research on religion in South Asia, popular Hinduism, women's expressive traditions, religions and environment, folklore, oral history

Kevin Gottlieb, Adjunct Professor, Public Administration
Ph.D., Syracuse University, 1970
Natural resource and energy policy, Congressional policy making

Cecilia Green, Associate Professor, Sociology
Ph.D., University of Toronto, 1998
Historical sociology, Caribbean, race/class/gender, globalization

Vernon Greene, Professor and Chair - Social Science Ph.D., Public Administration
Ph.D., Indiana University, 1978
Political theory, citizenship, program evaluation, quantitative methods

Paul Hagenloh, Associate Professor, History
Ph.D., University of Texas, Austin, 1999
Modern Russia/Soviet Union: Modern dictatorships, history of policing, genocide, critical theory

Jongwoo Han, Part-Time Assistant Professor, Political Science
Ph.D., Syracuse University, 1997
Korean politics, IT and democracy in Asia

Jonathan Hanson, Assistant Professor, Political Science
Ph.D., University of Michigan, Ann Arbor, 2007
Comparative political economy and development, East Asia, quantitative methods

Madonna Harrington Meyer, Laura J. and L. Douglas Meredith Professor for Teaching Excellence, Sociology
Ph.D., Florida State University, 1991
Aging, health care, gender policy

Margaret Hermann, Gerald B. and Daphna Cramer Professor of Global Affairs; Professor, Political Science; Director, Moynihan Institute of Global Affairs
Ph.D., Northwestern University, 1965
Political leadership, political psychology, foreign policy decision making, comparative foreign policy

Samantha Kahn Herrick, Associate Professor, History
Ph.D., Harvard University, 2002
Medieval European history, Christian hagiography and apostolic legends, memory, power

Christine Himes, Interim Associate Dean and Director, Center for Policy Research, Maxwell Professor, Sociology
Ph.D., University of Pennsylvania, 1989
Demography, aging, parental caregiving

Paul Hirsch, Research Assistance Professor, Public Administration
Ph.D., Georgia Institute of Technology, 2008
Collaborative management, water policy

William Horrace, Professor, Economics
Ph.D., Michigan State University, 1996
Theoretical and applied econometrics, spatial econometrics

Azra Hromadzic, Assistant Professor, Anthropology
Ph.D. University of Pennsylvania, 2009
political anthropology, ethno-political violence and post-conflict reconciliation, socialism and post-socialism, citizenship and globalization, gender, youth identity and cultures, comparative education, Eastern Europe and the Balkans

Matthew Huber, Assistant Professor, Geography
Ph.D. Clark University, 2009
political economy, historical geography, energy and capitalism, oil, resource governance and social theory

Emil Iantchev, Assistant Professor, Economics
Ph.D., University of Chicago, 2006
Applied Microeconomic theory, labor economics, applied contract theory

Seth Jolly, Assistant Professor, Political Science
Ph.D., Duke University, 2006
European Union, democratic institutions, comparative and international political economy, political parties, ethnic conflict, race and politics, political methodology

Amy Kallander, Assistant Professor, History
Ph.D., University of California, Berkeley, 2007
Modern Middle East

George Kallander, Assistant Professor, History
Ph.D., Columbia University, 2006
Korean and northeast Asian history and culture

Chihwa (Duke) Kao, Professor and Chair, Economics
Ph.D., State University of New York at Stony Brook, 1983
Econometrics, statistics, mathematical economics

Neil Katz, Associate Professor Emeritus, Public Affairs
Ph.D., University of Maryland, 1974
Nonviolent conflict and change, conflict resolution, modern American peace movements

Thomas Keck, Associate Professor and Michael O. Sawyer Chair in Constitutional Law and Politics, Political Science
Ph.D., Rutgers University, 1999
Supreme Court, American constitutional development

William Kelleher Jr., Associate Professor, Anthropology
Ph.D., University of Michigan, 1990
Social and cultural theory, colonialism, work and class, political violence; Europe, Northern Ireland

Jerry Kelly, Distinguished Professor, Economics
Ph.D., Harvard University, 1969
Social choice, econometric theory, microeconomic theory

Ralph Ketcham, Maxwell Professor Emeritus of Citizenship and Public Affairs; History, Public Affairs, and Political Science
Ph.D., Syracuse University, 1956
American political thought, era of American Revolution, public policy, comparative political cultures, comparative political theory, American intellectual history

Soonhee Kim, Associate Professor, Public Administration
Ph.D., State University of New York at Albany, 1998
Public management, human resources management, leadership development

Sharon Kioko, Assistant Professor, Public Administration
Ph.D., Indiana University, 2008
State and local government finance, financial management and accounting, program evaluation

Audie Klotz, Associate Professor, Political Science
Ph.D., Cornell University, 1991
International relations, transnational actors and activism

Thomas Kniesner, Krisher Professor, Economics
Ph.D., Ohio State University, 1974
Labor economics, health economics

Louis Kriesberg, Maxwell Professor Emeritus, Sociology
Ph.D., University of Chicago, 1953
World conflicts, conflict resolution, race/ethnic/minority relations

Jeffrey Kubik, Associate Professor, Economics
Ph.D., Massachusetts Institute of Technology, 1997
Labor economics, public finance

Prema Kurien, Associate Professor, Sociology
Ph.D., Brown University, 1993
International migration and immigration, sociology of religion, race and ethnicity, religion and society in India

Norman Kutcher, Associate Professor, History
J.D., Boston College, 1985; Ph.D., Yale University, 1991
Cultural, social, and intellectual history of China

Chris Kyle, Associate Professor, History
Ph.D., Aukland University, 1994
Toponomology, society, law and culture of Westminster and London, the social history of Parliaments in early modern Britain

Derek Laing, Associate Professor, Economics
Ph.D., University of Essex, United Kingdom, 1990
Macroeconomics, monetary theory, labor economics, industrial organization

W. Henry Lambright, Professor, Political Science and Public Administration
Ph.D., Columbia University, 1966
Science, technology, and public policy; energy, environment, and resources policy; technology and politics; bureaucratic politics

Sandra Lane, Professor, Health and Wellness and Anthropology (by courtesy)
Ph.D., University of California at San Francisco and Berkeley, 1988

Elisabeth Lasch-Quinn, Professor, History
Ph.D., University of Massachusetts, Amherst, 1990
Modern American social, cultural, intellectual history; social/political thought; cultural criticism; public philosophy; ethics; democracy; civil society; race; family

Andrew Lipman, Assistant Professor, History
Ph.D., University of Pennsylvania, 2010
Colonial North America and U.S. to 1877, Native Americans, Early American material cultures

Richard Loder, Part-time Professor of Sociology and Director, Native American Studies Program
Ph.D., Syracuse University, 1978
race and ethnicity, social process and social change, federal Indian policy and identity, Native American Studies

Andrew London, Professor and Chair, Sociology
Ph.D., University of Pennsylvania, 1993
Sociology of medicine, demography, HIV/AIDS, sociology of mental health, health services and policy research, welfare reform and welfare policy

Leonard Lopoo, Associate Professor, Public Administration
Ph.D., Chicago, 2001
Poverty economic geography, child and family policy

Julia Loughlin, Professor Emeritus, Sociology
Ph.D., Columbia University, 1971
Sex and gender roles, race/ethnic/minority relations, science and technology

Mary Lovely, Professor, Economics
Ph.D., University of Michigan, 1989
International economics, public finance, labor economics

Amy Lutz, Associate Professor, Sociology
Ph.D., SUNY Albany, 2002
Race, ethnicity, stratification, political sociology, Latin American/Latino studies

Yingyi Ma, Assistant Professor, Sociology
Ph.D., Johns Hopkins, 2006
Social stratification and social inequality, sociology of education, immigration, quantitative methods

Robin Malloy, E.I. White Chair and Distinguished Professor of Law and Professor, Economics (by courtesy)
J.D., University of Florida, 1980; LL.M., Illinois, 1983
Real estate transactions, law and economics, land use and development, property

William Mangin, Professor Emeritus, Anthropology
Ph.D., Yale University, 1954
Urban, race and ethnicity, applied qualitative methods; Peru, United States, Spain

Laurie Marhoefer, Assistant Professor, History
Ph.D., Rutgers University, 2008
Modern European history (Germany), gender history

Frederick Marquardt, Assistant Professor Emeritus, Maxwell Professor of Teaching Excellence, History
Ph.D., University of California, Berkeley, 1973
German and European social history

Peter Marsh, Professor Emeritus, History
Ph.D., University of Cambridge, 1962
19th/20th century Britain, international political economy

John Mathiason, Professor, International Relations
Ph.D., Massachusetts Institute of Technology, 1968
Management of the international public sector, international organization, international negotiation, research methods

Allan Mazur, Professor, Public Affairs
Ph.D., Johns Hopkins University, 1969
Biosociology, sciences and technology

Edward McClennan, Professor, Political Philosophy and Political Science
Ph.D., John Hopkins University, 1968
Moral and political philosophy, decision and game theory

Robert McClure, Chapple Family Professor of Citizenship and Democracy; Political Science and Public Affairs
Ph.D., Indiana University, 1969
American politics, leadership, mass communication

Gladys McCormick, Assistant Professor, History
Ph.D., University of Wisconsin, 2009
Latin America and the Caribbean, 19th- and 20th-century Mexico

Felicia McMahon, Research Associate Professor, Anthropology
Ph.D., University of Pennsylvania, 1992
folk arts, public folklore, children's folklore, play theory, festival; Adirondacks, Germany, refugees (Sudan)

John McPeak, Associate Professor, Public Administration and Economics (by courtesy)
Ph.D., Wisconsin, 1999
Development economics, natural resource economics, African agricultural development

Donald Meinig, Professor Emeritus, Geography
Ph.D., University of Washington, 1953
Cultural and historical geography of North America

John Mercer, Professor Emeritus, Geography
Ph.D., McMaster University, 1971
Urban and political geography, housing, comparative studies

Christina Merchant, Professor of Practice, Public Administration
M.S., American University, 1990
Conflict management systems design, federal mediation, alternative dispute resolution

Ines Mergel, Assistant Professor, Public Administration
D.B.A., University of St. Gallen, 2005
Information management, social network analysis

Susan Millar, Associate Professor, Geography
Ph.D., Rutgers University, 1995
Physical geography, periglacial geomorphology, arctic science, climate change

Jerry Miner, Professor Emeritus, Economics
Ph.D., University of Michigan, 1958
Public economics, human resources economics

Don Mitchell, Distinguished Professor, Geography
Ph.D., Rutgers University, 1992
Cultural, political economy of landscape, social theory, labor, geographies of power and marginalization, Marxism

Devashish Mitra, Professor; Gerald B. and Daphna Cramer Professor of Global Affairs, Economics
Ph.D., Columbia University, 1996
International trade, political economy, development economics

Chandra Talpade Mohanty, Professor and Chair, Women's and Gender Studies Department, Sociology
Ph.D., University of Illinois at Urbana-Champaign, 1987
Transnational feminist theory, postcolonial feminism, globalization and anti-capitalist praxis, the politics of knowledge, and anti-racist education

Mark Monmonier, Distinguished Professor, Geography
Ph.D., Pennsylvania State University, 1969
Geographic information (technology, policy, and societal role), cartographic communication and map design, history of cartography in the 20th century, environmental mapping

Glyn Morgan, Associate Professor, Political Science
Ph.D., University of California at Berkeley, 2001
Modern political theory, European Union and religion in public life

Anne Mosher, Associate Professor, Geography
Ph.D., Pennsylvania State University, 1989
Historical geography of North America, urban and urban historical geography, research methods in historical geography, interdisciplinary theories of space and place

Alison Mountz, Associate Professor, Geography
Ph.D., University of British Columbia, 2003
Social/cultural geography of transnational migration, feminist geography, urban geography, qualitative methodology

John Murray, Professor of Practice, International Relations
M.A., Columbia University, 1962, J.D., University of Iowa, 1968
Conflict resolution, negotiation and mediation, Middle East, alternative dispute resolution

Piyusha Mutreja, Assistant Professor, Economics
Ph.D., University of Iowa, 2010
International economics, economics development, macroeconomics

Tina Nabatchi, Assistant Professor, Public Administration
Ph.D., Indiana University, 2007
Deliberative democracy, alternative dispute resolution in the federal government

James Newman, Professor Emeritus, Geography
Ph.D., University of Minnesota, 1968
Population and settlement geography, diet and nutrition, human geography of Africa, prehistory

Terrell Northrup, Part-time Assistant Professor, International Relations
Ph.D., Syracuse University, 1987
Gender and conflict, feminist political and international relations theory, theoretical foundations of conflict theory and practice

Shannon Novak, Associate Professor, Anthropology
Ph.D., University of Utah, 1999
Bioarchaeology, domestic and political violence, anthropology of death, antebellum North America

Inge O'Connor, Assistant Professor, Economics
Ph.D., Syracuse University, 1996
Public economics, labor economics

Rosemary O'Leary, Maxwell Advisory Board Chair; Distinguished Professor and Howard G. and S. Louise Phanstiel Chair in Strategic Management and Leadership; Professor, Public Administration and Political Science
J.D. University of Kansas, 1981; Ph.D. Syracuse University, 1988
Public management, environmental policy, dispute resolution, and law

Jan Ondrich, Professor, Economics
Ph.D., University of Wisconsin, 1983
Econometrics, labor economics, urban economics

Jackie Orr, Associate Professor, Sociology
Ph.D., University of California, Berkeley, 1999
Contemporary theory, sociology of science, technology and medicine, gender studies

John Palmer, University Professor and Dean Emeritus, Public Administration and Economics
Ph.D., Stanford University, 1970
Public management and public policy, social welfare policy

Arthur Paris, Associate Professor, Sociology
Ph.D., Northwestern University, 1974
Urban sociology; race/ethnic/minority relations; science and technology

Laurenço Paz, Assistant Professor, Economics
Ph.D., University of Maryland, 2009
International trade and labor economics

Deborah Pellow, Professor, Anthropology
Ph.D., Northwestern University, 1974
Women, urbanization, ethnicity, cultural aspects of space and design, Africa, China

Thomas Perreault, Associate Professor, Geography
Ph.D., University of Colorado, 2000
Political ecology, environment and development, social movements, indigenous resource use, Latin America

Ambassador Donald J. Planty, Professor of Practice and Chair, International Relations
M.A., University of New Mexico, 1970
Latin America, Europe, foreign policy and security

William Pooler, Associate Professor Emeritus, Sociology
Ph.D., University of Michigan, 1971
Quantitative methodology, family, criminal justice

David Popp, Associate Professor, Public Administration
Ph.D., Yale University, 1997
Environmental economics, economics of technological change, public finance

James Powell, Professor Emeritus, History
Ph.D., Indiana University, 1960
Medieval Society and Culture, Crusades, Medieval Italy

Sarah Pralle, Associate Professor, Political Science
Ph.D., University of Washington, Seattle, 2001
Public policy processes

James Price, Associate Professor Emeritus, Economics
Ph.D., Massachusetts Institute of Technology, 1963
Macroeconomics, international trade

Gretchen Purser, Assistant Professor, Sociology
Ph.D., University of California at Berkeley, 2009
Work and labor markets, urban poverty, punishment and ethnography

Richard Ratcliff, Professor Emeritus, Sociology
Ph.D., University of Wisconsin - Madison
Political economy, stratification/mobility, conflict resolution, social theory, research methods

Thomas Raven, Assistant Professor, Political Science
Ph.D., Cornell University, 2008
American political development and institutions, political economy, regime theory and state formation

Jane Read, Associate Professor, Geography
Louisiana State University, 1999
Geographic information systems and remote sensing, human-environment interactions, tropical environments, Latin America

Grant Reeher, Professor, Political Science
Ph.D., Yale University, 1992
American politics, American political theory, political philosophy

J. David Richardson, Professor, Economics
Ph.D., University of Michigan, 1970
International economics, trade policy

David Robinson, Dellplain Professor of Latin American Geography, Geography
Ph.D., London University, 1967
Latin America, historical development, Internet

Christopher Rohlfs, Assistant Professor, Economics
Ph.D., University of Chicago, 2006
Public economics, applied microeconomics, economic history

Dennis Romano, Dr. Walter Montgomery and Marian Gruber Professor of History, History
Ph.D., Michigan State University, 1981
Renaissance Italy, early modern social and cultural history, Venice

Stuart Rosenthal, Professor and Melvin A. Eggers Economics Faculty Scholar, Economics
Ph.D., University of Wisconsin, 1986
Urban economics, housing economics, real estate finance, public economics

Ross Rubenstein, Associate Professor, Public Administration
Ph.D., New York University, 1997
Public finance, policy analysis and education policy

Robert Rubinstein, Professor, Anthropology
Ph.D., State University of New York at Binghamton, 1977; Ms.PH, School of Public Health, University of Illinois, Chicago, 1983
Medical anthropology, peace and conflict, methodology

Mark Rupert, Professor, Chair, Political Science
Ph.D., Claremont Graduate School, 1988
International relations

Tod Rutherford, Professor and Chair, Geography
Ph.D., University of Wales, 1992
Economic restructuring, labor and the automobile industry, labor market processes and policies, regional development

S.N. Sangmpam, Professor, African American Studies and Political Science
Ph.D., University of Chicago, 1984
Comparative politics, Panafricanism, African American politics

Hans Peter Schmitz, Associate Professor, Political Science
Ph.D., European University Institute, 1999
International relations, nonstate actors, human rights

Michael Schneider, Professor, International Relations
Ph.D., American University, 1978
International studies, environmental studies, East-West relations, diplomacy

Larry Schroeder, Professor, Public Administration
Ph.D., Wisconsin University, 1971
Public sector economics, quantitative methods, financial management in local governments and developing countries

Maureen Schwarz, Professor, Anthropology
Ph.D., University of Washington, 1995
Advocate of Native North Americans and their rights, Navajo reservation, issues of representation, personhood, organ transplantation, blood transfusion, medical and religious pluralism

Milton Sernett, Professor Emeritus, History and African American Studies
Ph.D., University of Delaware, 1972
African American religious history, slavery and abolition

Martin Shanguhya, Assistant Professor, History
Ph.D., West Virginia University, 2007
Colonial and postcolonial Africa, African political, economic and cultural, African environment and sustainability

James Sharp, Professor, History
Ph.D., University of California, Berkeley, 1966
American political history, early national and middle period, 1789-1860

Perry Singleton, Assistant Professor, Economics
Ph.D., University of Maryland, 2007
Public finance, health economics, labor economics, applied microeconomics

Theresa Singleton, Associate Professor, Anthropology
Ph.D., University of Florida, 1980
Historical archaeology, African American history and culture, slavery in plantation America

Gary Spencer, Professor Emeritus, Sociology
Ph.D. Boston, 1970
Dramaturgy, prejudice and discrimination, ethnicity

David Stam, University Librarian Emeritus and Senior Scholar, History
Ph.D., Northwestern University
Library history, bank history, 19th-century British studies, historiography

William Stinchombe, Professor Emeritus, History
Ph.D., University of Michigan, 1967
American diplomatic history, political history

Jeffrey Stonecash, Maxwell Professor, Political Science
Ph.D., Northwestern University, 1975
Political parties, intergovernmental relations, state politics

John Scott Strickland, Associate Professor, History
Ph.D., University of North Carolina, 1984
American South, African American religion and culture, United States social history, 1700-1900

Farhana Sultana, Assistant Professor, Geography
Ph.D., University of Minnesota, 2007
Political ecology, development theory, water resources management

Junko Takeda, Assistant Professor, History
Ph.D., Stanford University, 2006
Modern European history

Brian Taylor, Associate Professor, Political Science
Ph.D., Massachusetts Institute of Technology, 1998
Comparative politics, Russian politics

Laurence Thomas, Professor, Political Science and Philosophy
Ph.D., University of Pittsburgh, 1976
Political theory, foundations of moral character

Margaret Thompson, Associate Professor, History and Political Science
Ph.D., University of Wisconsin, 1979
Modern American history, government and politics, religion, women's history

Stuart Thorson, Donald P. and Margaret Curry Gregg Professor; International Relations and Political Science
Ph.D., University of Minnesota, 1972
International relations, political theory and methodology

John Marshall Townsend, Professor, Anthropology
Ph.D., University of California, Santa Barbara, 1972
Medical and psychological anthropology, theory and methodology, cross-cultural mental health, human sexuality, ethnic relations, symbolic interaction, United States, Germany

A. Dale Tussing, Professor Emeritus, Economics
Ph.D., Syracuse University, 1964
Health economics, poverty, Marxian economics

Walter Ullmann, Professor Emeritus, History
Ph.D., University of Rochester, 1961
Eastern Europe, 20th century Czechoslovakia

Margaret Usdansky, Assistant Professor, Sociology
Ph.D., Princeton University, 2004
Demography, single-parent families, sex and gender

Cecilia Van Hollen, Associate Professor, Anthropology
Ph.D., University of California, Berkeley and San Francisco, 1998
Cultural and medical anthropology, reproductive health, gender; South Asia

David Van Slyke, Associate Professor, Public Administration
Ph.D., SUNY Albany, 1999
Public administration and organizations, public policy process, strategic management, philanthropy, and charitable giving

Susan Wadley, Ford-Maxwell Professor of South Asian Studies, Anthropology
Ph.D., University of Chicago, 1973
Social change, demography, religion, folklore, performance studies, gender issues, India

Hongying Wang, Associate Professor, Political Science
Ph.D., Princeton University, 1996
East Asian politics, international relations

Michael Wasylenko, Interim Dean and Professor, Economics
Ph.D., Syracuse University, 1975
Public finance, public finance in developing countries, urban economics

Stephen Webb, Professor Emeritus, History
Ph.D., University of Wisconsin, 1965
Early American and Anglo-American history, the Iroquois

Jeffrey Weinstein, Assistant Professor, Economics
Ph.D., Yale University, 2008
Public economics, economics of education, urban economics

John Western, Professor, Geography
Ph.D., University of California, Los Angeles,
1978
Social, cultural, urban; Southern Africa, Europe

Peter Wilcoxon, Associate Professor, Public
Administration and Economics
Ph.D., Harvard University, 1989
Environmental economics, natural resource
economics

Janet Wilmoth, Associate Professor,
Sociology
Ph.D., Pennsylvania State University, 1995
Sociology of aging, demography, health

Robert Wilson, Assistant Professor,
Geography
Ph.D., University of British Columbia, 2003
Environmental historical geography, western
United States and Canada, environmental
policy

Jamie Winders, Associate Professor,
Geography
Ph.D., University of Kentucky, 2004
Urban and social geography, race/ethnicity,
gender, migration, North America, identity
theorizations, U.S. South, qualitative and
historical research methods, social theory

Douglas Wolf, Gerald B. Cramer Professor
of Aging Studies, Public Administration
Ph.D., University of Pennsylvania, 1977
Aging policy, population studies, quantitative
methods

John Yinger, Trustee Professor, Public
Administration and Economics
Ph.D., Princeton University, 1974
Urban economics, state and local government
finance, housing

S.I. Newhouse School Of Public Communications

Lorraine Branham, Dean
400 Newhouse I
newhouse.syr.edu



Introduction And Overview

The S.I. Newhouse School of Public Communications is widely regarded as one of the nation's top schools of communications. Engaged in industry partnerships and ongoing curricular development, the scope of the Newhouse School of Public Communications reaches beyond the confines of the classroom. The school prepares students and faculty alike to take a leadership role in addressing the issues of today's rapidly changing media landscape.

The Newhouse School claims a distinguished faculty with a broad range of expertise which is supplemented by visiting communications professionals, regularly bringing new experiences to the classroom. Students study in a modern, three-building complex, which houses multimedia labs, television and photography studios, and sound production and recording facilities. Students are supported in their professional development by the Tina Press and David Rubin Career Development Center which serves students who are engaged in public communications studies and helps them make professional connections and find internships, as well as professional positions.

http://newhouse.syr.edu/Career_Development_Center/students/services/index.cfm

Upon graduation, students join the ranks of Newhouse alums, a large and robust group of communications professionals influencing all aspects of the industry. The Career Development Center encourages networking among alums and between students and alums, supporting their continued involvement in the Newhouse School.

The Newhouse School embraces every known form of public communications offering a rich variety of undergraduate and graduate programs:

Undergraduate:

- Bachelor of Science in Advertising
- Bachelor of Science in Broadcast and Digital Journalism
- Bachelor of Science in Graphic Design
- Bachelor of Science in Magazine
- Bachelor of Science in Newspaper and Online Journalism
- Bachelor of Science in Photography
- Bachelor of Science in Public Relations
- Bachelor of Science in Television, Radio and Film

Graduate: Master's Level

- Master of Arts in Advertising
- Master of Arts in Arts Journalism
- Master of Science in Broadcast and Digital Journalism
- Master of Science in Communications Management
- Master of Arts in Documentary Film and History
- Master of Arts in Magazine, Newspaper, and Online Journalism
- Master of Science in Media Management
- Master of Arts in Media Studies
- Master of Science in Photography
- Dual Masters' Programs in Public Diplomacy (M.S in Public Relations and M.A in International Relations)
- Master of Science Program in Public Relations
- Master of Arts in Television, Radio and Film

Graduate: Doctoral Level

- Ph. D. in Mass Communications

Minors

- Communications Photography
- Public Communications Studies

ACCREDITATION

The S.I. Newhouse School of Public Communications is accredited by the Accrediting Council on Education in Journalism and Mass Communications, and the School is a member of the Association of Schools of Journalism and Mass Communications.

Educational Mission

The Newhouse School's mission is to educate ethical, visionary communicators whose goal is to establish an open marketplace of ideas guided by the First Amendment using contemporary professional practices. In the course of earning their degree, students are expected to achieve the following educational outcomes:

1. Demonstrate strong writing ability.
2. Demonstrate the ability to construct and tell a story effectively in spoken words, images, text and through multi-media.
3. Understand and make use of information technology, and grasp its import for society.
4. Understand effective visual language and how to apply it to create visual messages and enhance communications.
5. Understand the events and issues of the day in public communications and society in an environment both encouraged and deepened by the liberal arts experience.
6. Think analytically, gain numerical proficiency and learn to develop well-researched positions on issues.
7. Demonstrate knowledge of the historical traditions in public communications and of industry practices and products.
8. Demonstrate a knowledge of ethical practice in the communications field, along with an understanding of the responsibilities media practitioners have for the public welfare.
9. Demonstrate an understanding of the First Amendment freedoms of speech and press along with a commitment to using these freedoms in the service of democracy.
10. Demonstrate the ability to work within a team under deadline pressure.
11. Develop the knowledge to compare and contrast media systems around the world.
12. Learn to value, embrace and support diversity in society and the media.
13. Learn to access, evaluate, synthesize and make use of information in the creation of media products.
14. Become media literate and a critical consumer of media content.

Undergraduate Education

Lorraine Branham, Dean

Degree Program Overview

The S.I. Newhouse School of Public Communications offers programs of study that lead to the B.S. degree. Students enrolled in the dual program with the College of Arts and Sciences are granted the degree appropriate to the arts and sciences program of study, either the B.A. or the B.S. Students enrolled in the dual program with the School of Management or with the School of Information Studies also earn the B.S. degree.

Professional coursework in communications may be taken in advertising; broadcast and digital journalism; graphic design; magazine; newspaper and online journalism; photography; public relations; and television, radio and film.

Broad scholarship is stressed in all the programs to ensure that students attain the background necessary for serving in leadership roles in public communications.

All work prepared for classes in the school must be written electronically. Students are encouraged to bring a computer to campus for use in word processing, e-mail, Internet searches, and graphic, multimedia, and photographic presentations.

ACCREDITATION

The S.I. Newhouse School of Public Communications is accredited by the Accrediting Council on Education in Journalism and Mass Communications, and the School is a member of the Association of Schools of Journalism and Mass Communications.

Public communications students at Syracuse University, as at all accredited schools, receive a broad education in completing their degree requirements, devoting more than two-thirds of their study to areas other than communications, and earning a minimum of 65 credits in the liberal arts and sciences. Thirty-eight of the 122 credits required for graduation may be taken within the Newhouse School.

Graduation Requirements

For academic rules and regulations that apply to all Syracuse University students, see the Academic Rules and Regulations section of Online Course Catalog, which also contains special regulations that apply to all students matriculated in the S.I. Newhouse School of Public Communications. In addition, the following rules and regulations apply to students in the S.I. Newhouse School of Public Communications.

In addition to meeting all general University requirements for graduation, students must complete a minimum of 122 credits of coursework, of which 30 must be taken in residence at Syracuse University. All students must take a minimum of 30 credits in public communications courses.

SINGLE ENROLLMENT

Students who are singly enrolled in the Newhouse School of Public Communications must satisfy the general requirements of the professional program they are pursuing. Non-public communications requirements assure a broad education, and a minor or an area of specialization provides special competency in a selected field of study outside the school.

Singly enrolled students must:

1. Fulfill 65 credits in the College of Arts and Sciences.
2. Complete the following general skills requirements:
 - first semester writing course;
 - two courses in foreign languages;
 - one course in quantitative skills from the following list: MAT 121, MAT 183, MAT 221, or STT 101;
 - one additional skills course in foreign languages, quantitative skills, speech, or computer skills. Courses approved for this requirement include: any 3 to 4 credit foreign language course, ACC 151, ACC 201, CIS 252, CPS 181, CPS/CAS 196, IST 195, CRS 225, CRS 325, MAS 261, MAT 122, MAT 221, MAT 222, MAX 201, PSY 252, and SWK 361;
 - two writing intensive courses from an approved list. (See The College of Arts and Sciences Core Requirement for listing of writing intensive courses.)
3. Complete the following divisional requirements:
 - two courses (6 credits) in social sciences
 - two courses (6 credits) in humanities;
 - two courses (6 to 8 credits) in natural sciences and mathematics;
 - four additional courses (12 to 16 credits) from any of the three areas listed above.

All courses fulfilling divisional requirements must be from the Divisional Lists included in the *Newhouse School Fact Book 2010-2011*.

For updated information, check with the Newhouse Undergraduate Records Office.

4. Complete the requirements of one major plan of study in the Newhouse School of Public Communications. Up to 38 credits in Newhouse may be counted in the 122 credits needed for graduation.
5. Complete a minor or an area of specialization comprising at least 18 credits in a single department in a school or college other than public communications. At least 12 of these credits must be in upper-division courses. This minor or area of specialization may include courses taken to fulfill requirements other than the major. A complete list of minors offered by Syracuse University can be found in the online *Course Catalog*. The minors in Public Communications Studies and in Communications Photography are intended for students who are not enrolled in the Newhouse School.
6. Complete enough credits in electives to total 122 credits, which is required for graduation. These electives may be taken in any school or college within the University. No more than four credits may be in physical education.

DUAL ENROLLMENT

Students dually enrolled in the Newhouse School of Public Communications and another school or college within the University must fulfill the degree requirements of both schools. Upon graduating, they receive a bachelor's degree (one diploma) conferred jointly by the two schools.

Formal dual programs of study are available in cooperation with the College of Arts and Sciences, the School of Information Studies, and the Martin J. Whitman School of Management.

ADMISSION TO MAJOR PROGRAMS

Students must declare a major program of study before the end of the sophomore year. Students majoring in photography may need a minimum of five semesters on Main Campus to complete the major. Admission to the photography and the graphic design programs is based on acceptance of a portfolio presented after a student completes the first graphic design and photography courses. Admission to the creative sequence in advertising is based upon a student receiving a grade of B+ or better in ADV 401 and upon a positive committee review of a portfolio.

INTRA-UNIVERSITY TRANSFER

To be eligible for internal transfer into the Newhouse School of Public Communications, Syracuse University students must have earned at least 30 credits in courses graded A-F at Syracuse before transferring. Admission is based upon a student's cumulative Syracuse GPA, which includes all SU courses. The GPA required for admission varies each semester depending upon the number of spaces available and the number and strength of the applicants. Students must complete the necessary paperwork no later than the last day of classes of the sophomore year. Students are admitted twice each year. Application deadlines are December 15 and May 1. Applications must be turned in to 316 Newhouse 3, the Newhouse Undergraduate Records Office. Students wishing to major in photography may need a minimum of five semesters on Main Campus to complete this major.

TRANSFER CREDIT

The Newhouse School accepts a maximum of 12 transfer credits in communications. Transfer credit in communications must be judged applicable to the student's major to be acceptable, in addition to meeting general University criteria for transfer credit.

STUDY ABROAD

London, a world center for communications, has a special appeal for students in advertising; graphics; public relations; journalism; photography; and television, radio, and film. The programs offered abroad in these areas are intended for third-year students who have completed introductory courses.

Public communications students who participate in the SU Abroad London program may take six credits in the major area of study. Photography courses usually are offered during the fall semester. Courses in advertising, journalism, public relations, and courses in television, radio, and film are typically offered both semesters. The balance of the academic program consists of courses selected from other components of the program in London, which may include Arts and Sciences and Management.

Also, through Syracuse University Abroad, the Newhouse School of Public Communications offers public communications courses in Madrid, Spain, and Strasbourg, France. In addition, students in Madrid may select from courses offered in anthropology, biology, fine arts, history, economics, political science, religion, sociology, management, and Spanish language and literature. Those fluent in Spanish may do part or all of their coursework at the Autónoma University of Madrid. In Strasbourg, students may choose from courses in economics, fine arts, French language and literature, history, philosophy, political science, religion, and sociology. Those fluent in French may do part or all of their coursework at the University of Strasbourg.

Students who do not need to take a communications course during their semester abroad also have the options of studying in Santiago, Chile; Florence, Italy; or Beijing or Hong Kong, China. Direct placement in foreign universities or programs in Africa, Australia, Costa Rica, Dominican Republic, Ecuador, Egypt, Germany, India, Ireland, Israel, Japan, Korea, Poland, Russia, Turkey, and the West Indies is also available. For further information, contact Syracuse University Abroad, 106 Walnut Place, 315-443-3471.

STUDY In LOS ANGELES

Students in the S.I. Newhouse School of Public Communications have the opportunity to study for a semester in Los Angeles. This new program particularly accommodates students who are majoring in Television, Radio and Film. Students spend one semester in either the junior or senior year in Los Angeles. During this semester, students engage in a professional internship, as well as take two or three courses in a variety of communications topics taught by professionals prominent in their field. Students may also continue to pursue their liberal arts studies through enrolling in one or more online courses offered by the College of Arts and Sciences. More information can be found at <http://lasemester.syr.edu/>

Minors

MINOR IN PUBLIC COMMUNICATIONS STUDIES

Coordinator Karen McGee, Assistant Dean
315 Newhouse 3, 315-443-1908

Goal

The goal of this minor is to permit students to examine how the process of public communications affects society. Students will learn how the various media and messages of public communications, including newspapers, magazines, books, radio, television, film, advertising, public relations, photography, graphics, online journalism, and new media influence specific audiences and shape society in the United States and globally.

Audience

This minor is intended for Syracuse University students who are not enrolled in the School of Public Communications. Students choosing this minor should have an interest in learning more about the social, political, economic, ethical, and legal effects of public communications on their lives as citizens, professionals, and leaders in our society.

Entrance Requirements

Applicants are admitted on a space-available basis depending upon cumulative GPA. To be eligible, a student must have completed 30 credits at Syracuse University in courses graded A-F and must submit an application to the Newhouse Undergraduate Records Office (316 N3) by December 15 for spring admission or May 1 for fall admission. Students must declare the public communications minor no later than the first semester of their junior year.

To declare a minor, students must file a declaration form indicating specific courses selected. The form must be approved by Assistant Dean Karen McGee (315 Newhouse 3) and by the student's home college. See *Academic Offerings* for course choices in the minor.

MINOR IN COMMUNICATIONS PHOTOGRAPHY

Coordinator Karen McGee, Assistant Dean
315 Newhouse 3, 315-443-1908

Goal

The members of the Multimedia Photography and Design Department know that life is enriched with the knowledge of how to make high-quality, meaningful images. The purpose of this minor is to provide photography expertise to complement the student's primary area of study.

Audience

This minor is intended for Syracuse University students who are not enrolled in the School of Public Communications. Photography is a valuable tool, of benefit to the architect, sociologist, biologist, forester, anthropologist, teacher, fashion designer, and students pursuing many other professions.

Entrance Requirements

Applicants are admitted on a space-available basis depending upon cumulative GPA. To be eligible, a student must have completed 30 credits at Syracuse University in courses graded A-F, completed PHO 301 and GRA 217, passed the Multimedia Photography and Design Department's portfolio review, and submitted an application to the Newhouse Undergraduate Records Office (316 N3) by December 15 for spring admission or May 1 for fall admission. Students must declare the communications photography minor no later than the first semester of their junior year.

To declare a minor, students must file a declaration form indicating the specific courses selected. The form must be approved by Assistant Dean Karen McGee (315 Newhouse 3) and by the student's home college. See *Academic Offerings* for courses choices in the minor.

Research Centers

BLEIER CENTER FOR TELEVISION AND POPULAR CULTURE

The S.I. Newhouse School is the home of the Bleier Center for Television and Popular Culture. The center maintains a large archive of television scripts and history, including videotaped memories of such television pioneers as Steve Allen, Daniel Schorr, and Betty White. The center presents major industry figures as artists-in-residence, sponsors symposia on critical issues in television, and oversees the publication of a Syracuse University Press series of books on television. For further information contact Robert Thompson, director, 315-443-4077, <http://tvcenter.syr.edu/>

TULLY CENTER FOR FREE SPEECH

The S.I. Newhouse School is the home of the Tully Center for Free Speech, which educates students and the public about the value of free speech. The Center sponsors educational programs and conducts research related to media law and free speech, serves as a clearinghouse on media law issues in New York State, and supports interdisciplinary work on free speech topics at Syracuse University. For further information contact the director at 315-443-7353, <http://tully.syr.edu/>

Library Resources And Services

Syracuse University Library supports teaching, learning, and research at the Newhouse School by providing a wide array of research support services, facilities, and on-site and online resources <http://library.syr.edu/>

Library collections in public communications cover advertising, broadcast journalism, print and online journalism, communication theory and research, law of the press, public relations, printing, photography, film, and freelance writing. Communications-related databases, accessible from any location on or off campus, include *Lexis Nexis*, *Factiva*, *The New York Times Historic Archives*, *AP Images*, *Vanderbilt University's Television News Archive*, *JSTOR*, *Communications & Mass Media Complete*, *World Advertising Research Center*, *ProQuest Dissertations & Theses Full Text*, and many more. In addition, the library has hundreds of videos and DVDs, sound recordings, and media trade magazines; collections of the memoirs of foreign correspondents; and private papers of American newsmen, broadcasters, authors, and cartoonists.

The library's Special Collections Research Center is the repository for the papers of several American columnists of national note—Drew Pearson, Westbrook Pegler, George Sokolsky, Harold Ickes, Dorothy Thompson, and Arthur Brisbane; an outstanding collection of prints, negatives, and personal papers of noted photographer Margaret Bourke-White; and personal papers and scripts of communications personalities Norman Corwin, Mike Wallace, and Fulton Lewis Jr., as well as those involved in the business of television, such as Ed Bleier. The library also maintains an extensive archive of scripts, videos, and personal papers in the field of television history, including scripts and production notes from NYPD Blue and Party of Five; scripts and videotapes of St. Elsewhere; and interviews by Christian Science Monitor correspondent Arthur Unger and television critic Steven H. Scheuer.

Facilities

The S.I. Newhouse School's Buildings are known on campus as Newhouse 1, 2, and 3. All three buildings have faculty offices and classrooms capable of supporting Web, KeyNote, PowerPoint and advanced multimedia presentations.

Newhouse 1 contains administrative offices; computerized news writing and editing laboratories with research tools, such as SPSS; motion graphic and multimedia laboratories supporting digital imaging, Final-Cut© editing, and digital sound; Adobe Creative Suites©; an advertising/public relations campaigns laboratory; and the Bill Glavin Magazine Lab, a collaborative space for magazine writing and production. There is a large professional photography studio with large-format digital imaging capabilities, and there are laboratories for electronic imaging and digital color printing.

Newhouse 2 contains two television studios with a master control room and an extensive field-equipment facility that monitors the use of dozens of digital video camera systems (HDV, DV, DVCam, DVCpro formats), lights, microphones, and other production accessories. Post-production facilities include linear video-editing suites; nonlinear editing suites (AVID© and Final Cut Pro©), including six high-definition suites; 24-channel, digital music-recording studio; two digital post-production sound studios equipped with Pro Tools© HD and 5.1 surround sound capabilities; an extensive sound effects and music collection; Photoshop© and After Effects© graphic systems; and an encoder and server for video streaming on the web. There is a multiroom complex for teaching broadcast journalism that contains a newsroom and writing laboratories equipped with ELECTRONIC NEWS PRODUCTION SYSTEM© (ENPS); a radio production lab where students edit digital news stories using Audacity©; a studio devoted to learning live reporting; and screening and viewing rooms. In addition, students are involved extensively in the University's Orange Television Network <http://orangetv.syr.edu>, which is headquartered in Newhouse 2.

Newhouse 3 houses a 350-seat auditorium; a collaborative media suite in which students can build web-based, interactive information sites; executive education interactive classrooms; student lounges; spaces for media-related student activities; and a research center. A dining and social area connects all three buildings in the center of the complex. A glass-enclosed bridge connecting Newhouse 1 and 2 provides a walkway with a winter garden setting for studying or socializing.

Academic Offerings

Advertising

Contact James Tsao, Chair
318 Newhouse 3, 315-443-7362

Faculty Amy P. Falkner, Jong-Hyuk Jung, Carla V. Lloyd, Edward W. Russell, Brian Sheehan, James Tsao

Recognized as one of the top advertising programs in the country, the advertising major in Newhouse helps students to become "big thinkers" and future advertising leaders. The curriculum provides an interdisciplinary approach to learning, introducing students to both theory and practice through project-based experiences using real clients. Besides taking core courses in advertising and communications, students are encouraged to use their electives to develop an emphasis within their major with the help of their advisors.

Recent successes of advertising students include first place in the 2009 National Student Advertising Competition and in the General Motors GM&U Marketing Challenge. This major requires 31-37 credits in communications, depending upon the nature of the two electives which students choose to develop their advertising emphasis.

MAJOR REQUIREMENTS

Required Courses (25 CREDITS)

ADV 206	Advertising Practice in a Diverse Society
ADV 208	The "Big Idea" in Advertising
ADV 307	Conceptual and Creative Thinking in Media Planning
ADV 509	Advertising Research and Planning: A Case Study Approach
COM 101	Practical Grammar for Public Communications (1 credit)
COM 107	Communications and Society
COM 117	Multimedia Storytelling
COM 344	Diversity and Media Issues (1 credit, plus 3 credits of Arts and Sciences)*
COM 408	Advertising and Public Relations Law (2 credits)
GRA 217	Introduction to Graphic Design

*COM 346 Race, Gender, and the Media can be used to satisfy the diversity requirement instead of COM 344 and an approved course in the College of Arts and Sciences.

Capstone Requirement: Choose One (3 Credits)

ADV 425	Integrated Advertising Campaigns
PRL 325	Public Relations Campaign Planning and Execution

Additional Requirements

Collaborative Intensive Experience
Global Experience

Emphasis (9 CREDITS)

Students are expected to complete an emphasis which complements their individual career goals. Faculty advisors will work with students to put together a series of three electives to fulfill the requirement. At least one of the three electives must be a Newhouse course. Emphases may include, but are not limited to, creative production skills and advertising messages, ethnographic and socio-psychological study of human and institutional behaviors, strategic planning, account management and branding, internet advertising, integrated media planning, account planning and consumer research, advertising law, advertising for social causes, and political advertising.

Total: 31-37 Newhouse credits required.

Broadcast And Digital Journalism

Contact Dona Hayes, Chair
318 Newhouse 3, 315-443-1944

Faculty Hubert Brown, Michael Cremedas, Frank Currier, Barbara C. Fought, Dona Hayes, E. Robert Lissit, Suzanne Lysak, John Nicholson, Donald C. Torrance, Chris Tuohey, Randy Wenner

Students in the broadcast and digital journalism program learn writing, information gathering and reporting, formatting, editing, anchoring, and producing for both traditional and digital media platforms. Among the tools that students use to report live are some of the latest technologies, such as Twitter© and Skype©. Students also study critical issues (including ethical dilemmas) faced in today's complex communications environment. "Hands-on" experience is emphasized in the broadcast and digital journalism curriculum.

Majors are encouraged to take advantage of University-sponsored internships at broadcast stations (both local and network) across the country. Additionally, students have the opportunity to do extracurricular work at campus radio and television stations.

MAJOR REQUIREMENTS

This is a 38-credit major. The sequence of courses that follows requires a minimum of four Main Campus semesters to complete. Students majoring in broadcast journalism will take the following courses:

Required Courses (29 Credits)

BDJ 204	News in a Multimedia World <i>or</i>
NEW 205	News Writing
BDJ 265	Broadcast Journalism Studio Production (1 credit)
BDJ 311	Broadcast and Digital News Writing
BDJ 364	Radio and Digital Audio News Reporting
BDJ 464	Television and Digital Audio News Reporting
COM 101	Practical Grammar for Public Communications (1 credit)
COM 107	Communications and Society
COM 117	Multimedia Storytelling
COM 344	Diversity and Media Issues (1 credit, plus 3 credits of Arts and Sciences)*
COM 505	Communications Law for Journalists
MPD 205	Photography for Broadcast News (2 credits)
NEW 345	Critical Perspective on News

*COM 346 Race, Gender, and the Media can be used to satisfy the diversity requirement instead of COM 344 and an approved course in the College of Arts and Sciences.

CAPSTONE REQUIREMENT (3 CREDITS)

BDJ 465 Television and Digital News Producing and Presenting

Additional Requirements

Collaborative Experience
Global Experience

Newhouse Electives (6 Credits)

Broadcast and Digital Journalism students choose two Newhouse electives. In consultation with their advisers, students should select as Newhouse electives courses that expand and enrich their knowledge of communications.

Total: 38 Newhouse credits required.

Communications Photography Minor

Coordinator Karen McGee, Assistant Dean
315 Newhouse 3, 315-443-1908

Curriculum Requirements

Students must complete 18 credits of which 12 credits must be at the 300-level or above.

Three Required Courses

COM 107 Communications and Society
PHO 301 Principles of Photography I with PHO 556 Basic Photo Lab
PHO 302 Principles of Photography II

Fourth Course (Choose One)

PHO 403 Advertising and Illustration Photography I with PHO 560 Advanced Photo Lab
PHO 405 Photojournalism and Multimedia with PHO 560 Advanced Photo Lab

Two Additional Courses

Any Newhouse course for which the student has the prerequisites.

To declare a minor, students must file a declaration form indicating the specific courses selected. The form must be approved by Assistant Dean Karen McGee (315 Newhouse 3) and by the student's home college.

Graphic Design

Contact Anthony R. Golden, Chair
Department of Multimedia Photography and Design
318 Newhouse 3, 315-443-2304

Faculty Anthony R. Golden, Ken Harper, Lawrence Mason Jr., Bruce Strong, David C. Sutherland, Sherri Taylor

Students interested in visual communications are drawn to the graphic design program because of its emphasis on both design, image, interactivity and communications. Students can develop design skills for both print and multimedia environments, as they also develop communications writing skills, photography skills, and knowledge of communications law, ethics, and business.

Admission to the program is based on acceptance of a portfolio of photography, graphics work, and communications writing after completing GRA 217 and PHO 301.

MAJOR REQUIREMENTS

Students majoring in graphic design must complete 38 credits within the Newhouse School of Public Communications. The major requirements follow.

Required Courses (32 Newhouse Credits)

COM 101	Practical Grammar for Public Communications (1 credit)
COM 107	Communications and Society
COM 117	Multimedia Storytelling
COM 344	Diversity and Media Issues (1 credit, plus 3 credits of Arts and Sciences)*
COM 505	Communications Law for Journalists <i>or</i>
COM 506	Communications Law for Television, Radio, Film
GRA 217	Introduction to Graphic Design
GRA 356	Type and Image for Multimedia (2 credits)
GRA 437	Typographic Design
GRA 447	Motion Graphics and User Experience
GRA 477	Graphic Design Problems
NEW 205	News Writing**
PHO 301	Introduction to Photography for Multimedia
PHO 357	Photography for Graphic Design (1 credit)

*COM 346 Race, Gender, and the Media can be used to satisfy the diversity requirement instead of COM 344 and an approved course in the College of Arts and Sciences.

**Or other Newhouse writing class by petition

Capstone Requirement (3 Credits)

MPD 478 Graphic Design Capstone

Additional Requirements

Collaborative Experience
Global Experience
EEE 370 Introduction to Entrepreneurship and Emerging Enterprises
(Whitman School of Management)
PHI 293 Ethics in the Media (College of Arts and Sciences)

Newhouse Elective (3 Credits)

Graphic design majors are required to take one Newhouse elective.

Total: 38 Newhouse credits required.

Magazine

MAGAZINE

Contact Melissa Chessher, Chair
318 Newhouse 3, 315-443-4004

Faculty Harriet Brown, Melissa Chessher, Mark Obbie

Students seeking a bachelor's degree in magazine face realistic and exacting assignments designed to prepare them for careers in the magazine field, both in print and online. In small classes, students develop and perfect their ability to research, write, and edit. In addition, they study areas such as graphics, law, and ethics. Students must take MAG 406 and MAG 408 during different semesters.

MAJOR REQUIREMENTS

Students are required to complete 35 Newhouse credits in the magazine major. The major requirements are outlined below.

Required Courses (29 Credits)

COM 101	Practical Grammar for Public Communications (1 credit)
COM 107	Communications and Society
COM 117	Multimedia Storytelling
COM 344	Diversity and Media Issues (1 credit, plus 3 credits of Arts and Sciences)*
COM 505	Communications Law for Journalists
GRA 217	Introduction to Graphic Design
MAG 205	An Introduction: Editorial, Ethics, and the Business of Magazines
MAG 406	Magazine Article Writing
MAG 408	Magazine Editing
NEW 205	News Writing
NEW 305	Reporting

*COM 346 Race, Gender, and the Media can be used to satisfy the diversity requirement instead of COM 344 and an approved course in the College of Arts and Sciences.

Capstone Requirement: CHOOSE ONE (3 CREDITS)

MAG 407	Writing Portfolio
MAG 409	FIRST ISSUE: Starting a Magazine
ICC 505	Web Journalism and Innovation

ADDITIONAL REQUIREMENTS

Collaborative Intensive Experience
Global Experience

Newhouse Elective (3 Credits)

Magazine majors are required to take one Newhouse elective.

Total: 35 Newhouse credits.

Newspaper And Online Journalism

Contact Steve Davis, Chair
318 Newhouse 3, 315-443-3371

Faculty Lorraine Branham, Steve Davis, Joan A. Deppa, Elizabeth Lynne Flocke, Seth Gitner, Charlotte Grimes, Joel Kaplan, Johanna Keller, Robert E. Lloyd, Stephen M. Masielac, R. Gustav Niebuhr, Francis Ward, Jay B. Wright

Students in the newspaper program learn to meet the challenges of the complex and evolving print industry, which remains the provider of news online. Classes cover how to produce content using all the written and visual tools, and how to deliver it and design it for all the platforms where news is featured. Emphasis remains on learning the traditional core skills such as interviewing, reporting and writing. Students produce multimedia content for the Newhouse School's news website, <http://www.thenewhouse.com/>, as well as for local media outlets that participate in a strong internship program. Studies also include diversity issues, law and ethics.

MAJOR REQUIREMENTS

The newspaper and online journalism major requires 35 Newhouse credits. The major requirements are outlined below. NEW 305 must be completed no later than the first semester of the senior year.

Required Courses (29 Newhouse Credits)

COM 101	Practical Grammar for Public Communications (1 credit)
COM 107	Communications and Society
COM 117	Multimedia Storytelling
COM 344	Diversity and Media Issues (1 credit, plus 3 credits of Arts and Sciences)*
COM 505	Communications Law for Journalists
GRA 217	Introduction to Graphic Design
NEW 205	News Writing
NEW 305	Reporting
NEW 345	Critical Perspective on News
NEW 405	Advanced Reporting
NEW 496	Senior Portfolio (0 credits)
NEW 508	Newspaper Editing

*COM 346 Race, Gender, and the Media can be used to satisfy the diversity requirement instead of COM 344 and an approved course in the College of Arts and Sciences.

CAPSTONE REQUIREMENT: CHOOSE ONE (3 CREDITS)

NEW 509	Advanced Newspaper Editing
NEW 530	Selected Topics in Specialized Reporting (variable title)
NEW 535	Newspaper and Magazine Practicum

ADDITIONAL REQUIREMENTS

Collaborative Intensive Experience
Global Experience

Newhouse Elective (3 Credits)

Newspaper and online journalism majors are required to take one Newhouse elective.

Total: 35 Newhouse credits.

Photography

Contact Anthony R. Golden, Chair
Department of Multimedia Photography and Design
318 Newhouse 3, 315-443-2304

Faculty Anthony R. Golden, Ken Harper, Lawrence Mason Jr., Bruce Strong, David C. Sutherland, Sherri Taylor

The photography program offers two professionally oriented sequences: illustration photography and photojournalism. Admission to the photography program is based on acceptance of a portfolio of photography, graphics, and communications writing after completing GRA 217 and PHO 301. Both the illustration photography and the photojournalism major tracks emphasize multimedia storytelling and production using still imaging, video and sound to produce final products for print and the web. Photographers work closely with graphic designers and students and faculty from other Newhouse majors. Students also study entrepreneurship, communications law and ethics, as well as develop communications writing and graphic design skills.

Illustration Photography

The sequence in illustration photography covers the areas of advertising, commercial, fashion, and magazine illustration photography for print and the Web.

Photojournalism

The sequence in photojournalism is designed for students interested in visual journalism both online and in print.

MAJOR REQUIREMENTS

Photography majors must complete 38 credits within the Newhouse School of Public Communications and other requirements as outlined below.

Requirements For Both Sequences (23 Newhouse Credits):

COM 101	Practical Grammar for Public Communications (1 credit)
COM 107	Communications and Society
COM 117	Multimedia Storytelling
COM 344	Diversity and Media Issues (1 credit, plus 3 credits of Arts and Sciences)*
COM 505	Communications Law for Journalists**
GRA 217	Introduction to Graphic Design
GRA 357	Type and Image for Photography (1 credit)
NEW 205	News Writing
PHO 301	Introduction to Photography for Multimedia
PHO 356	Photography for Multimedia (2 credits)

*COM 346 Race, Gender, and the Media can be used to satisfy the diversity requirement instead of COM 344 and an approved course in the College of Arts and Sciences.

**Photography majors completing the Illustration Photography sequence have a choice of COM law courses, either COM 505 or COM 506: Communications Law for Television, Radio, Film.

Additional Requirements For Illustration Photography (12 Newhouse Credits)

PHO 403 Advertising and Illustration Photography I
PHO 404 Advertising and Illustration Photography II
PHO 405 Photojournalism and Multimedia
CAPSTONE REQUIREMENT:
MPD 406 Advertising and Illustration Photography Capstone

ADDITIONAL REQUIREMENTS FOR PHOTOJOURNALISM (12 NEWHOUSE CREDITS)

PHO 403 Advertising and Illustration Photography I
PHO 405 Photojournalism and Multimedia
PHO 425 Picture and Multimedia Editing
CAPSTONE REQUIREMENT:
MPD 426 Photojournalism and Multimedia Editing Capstone

Additional Requirements For Both Sequences

Collaborative Experience
Global Experience
EEE 370 Introduction to Entrepreneurship and Emerging Enterprises
(Whitman School of Management)
PHI 293 Ethics in the Media (College of Arts and Sciences)

Newhouse Elective For Both Sequences (3 Credits)

Photography majors are required to take one Newhouse elective.

Total: 38 Newhouse credits required.

Public Communications Studies Minor MINOR IN PUBLIC COMMUNICATIONS STUDIES

Coordinator Karen McGee, Assistant Dean
315 Newhouse 3, 315-443-1908

Curriculum Requirements

Students must complete 18 credits of which 12 credits must be 300-level or above.

Two Required Courses

COM 107 Communications and Society
COM 505 Communications Law for Journalists
or
COM 506 Communications Law for Television, Radio, Film

Four Additional Courses From Any Of The Following Categories:

A. Gateway to the Disciplines

ADV 206 Advertising Practice in a Diverse Society
PRL 206 Public Relations Principles and Concepts
MAG 205 An Introduction: Editorial, Ethics, and the Business of Magazines
TRF 235 Principles and Practices: Television-Radio-Film Industries

B. Critical Issues

ADV 345 Economics, Persuasion, and the Global Marketplace
COM 346 Race, Gender, and the Media
COM 347 Federal Government and the Media
GRA 345 Visual Issues in the Media
PRL 345 The Ethics of Advocacy
NEW 345 Critical Perspective on News
TRF 345 Critical Perspectives: Electronic Media, Film

C. History of Public Communications

COM 515 History of the Media in the United States in the Modern Age

D. Public Communications, Politics, and Society

TRF 436 Social Effects of Television

E. Global Public Communications

COM 527 International Communications (SU Abroad, London)
PRL 400 Introduction to Public Relations Abroad (SU Abroad, London)
TRF 560 Topics in International Perspectives

F. Creators of Public Communications

TRF 530 Popular Culture Studies

G. Open choice (no more than one course)

One other Newhouse course for which the student has the prerequisites

To declare a minor, students must file a declaration form indicating specific courses selected. The form must be approved by Assistant Dean Karen McGee (315 Newhouse 3) and by the student's home college.

Public Relations

Contact Brenda J. Wrigley, Chair
318 Newhouse 3, 315-443-9206

Faculty Shannon Bowen, Dennis F. Kinsey, Robert M. Kucharavy, Maria P. Russell, Brenda J. Wrigley, Sung-Un Yang

Public relations is the management of communication between an organization and its publics. The public relations program provides students with instruction in the principles, processes, skills, and management of public relations programs designed to attain or maintain inter-organizational or social accord. Students learn both the basic skills of writing, graphics, and oral presentation, as well as the managerial functions of planning, research, campaign development, and evaluation. The program prepares students with a solid ethical foundation, an understanding of diversity and multiculturalism, and an understanding of the use of social media for strategic engagement with an organization's publics. This is a 34-credit major. Students majoring in Public Relations must take the following requirements.

MAJOR REQUIREMENTS

Required Courses (31 Credits)

COM 101 Practical Grammar for Public Communications (1 credit)
COM 107 Communications and Society
COM 117 Multimedia Storytelling
COM 344 Diversity and Media Issues (1 credit, plus 3 credits of Arts and Sciences)*
COM 408 Advertising and Public Relations Law (2 credits)
GRA 217 Introduction to Graphic Design
PRL 206 Public Relations Principles and Concepts
PRL 214 Writing for News and Public Relations in a Digital Age
PRL 215 Advanced Public Relations Writing in a Digital World
PRL 315 Public Relations Research
PRL 325 Public Relations Campaign Planning and Execution
PRL 345 Ethics of Advocacy

*COM 346 Race, Gender, and the Media can be used to satisfy the diversity requirement instead of COM 344 and an approved course in the College of Arts and Sciences.

Capstone Requirement (3 Credits)

PRL 497 Public Relations Management

Additional Requirements

Collaborative Intensive Experience
Global Experience

Total: 34 Newhouse credits required.

Television, Radio And Film

Contact Michael Schoonmaker, Chair
318 Newhouse 3, 315-443-4004

Faculty Richard L. Breyer, Fiona Chew, Richard Dubin, Larry Elin, Tula Goenka, Sharon R. Hollenback, Patricia H. Longstaff, Peter K. Moller, Douglas Quin, Michael Schoonmaker, Evan Smith, Robert J. Thompson, Donald C. Torrance, Roosevelt R. Wright Jr.

The Television, Radio and Film program prepares future leaders in the television, radio, film and interactive media industries. The major consists of a minimum of 12 courses. Seven of these are core courses which introduce students to fundamental issues, practices, and concepts of television-radio-film environments. An extensive array of elective courses provides students the opportunity to tailor programs of study that fit their unique learning objectives. The TRF department offers a number of popular culture courses in association with the Bleier Center for Television and Popular Culture, <http://tvcenter.syr.edu/>

Students are encouraged to participate in our Semester in Los Angeles and study abroad opportunities (<http://studyabroad.syr.edu/>). Alumni have gone on to pursue a wide variety of careers as producers, writers, directors, designers, agents, editors, executives, attorneys, and media educators.

MAJOR REQUIREMENTS

This is a 36-credit major. Students majoring in television, radio and film must fulfill the following requirements:

Required Courses (23 Credits)

COM 101	Practical Grammar for Public Communications (1 credit)
COM 107	Communications and Society
COM 117	Multimedia Storytelling
COM 344	Diversity and Media Issues (1 credit, plus 3 credits of Arts and Sciences)*
COM 506	Communications Law for Television, Radio, Film
TRF 205	Sight, Sound and Motion
TRF 211	Screenwriting
TRF 235	Principles and Practices: Television, Radio, Film Industries
TRF 345	Critical Perspectives: Electronic Media, Film

*COM 346 Race, Gender, and the Media can be used to satisfy the diversity requirement instead of COM 344 and an approved course in the College of Arts and Sciences.

Captone Requirement: Choose One (3 Credits)

TRF 461	Advanced Management Seminar
TRF 465	Production Practicum--Television
TRF 467	Screenwriting Master Class
TRF 468	Advanced Practice: Audio
TRF 469	Advanced Practice: Filmmaking

Additional Requirements

Collaborative Experience
Global Experience
PHI 293 Ethics in the Media (College of Arts and Sciences)

Directed Newhouse Electives (10 Credits)

TRF majors work closely with their academic advisor to tailor upper-division Newhouse course work (300-level or higher) to their individual learning and career goals. Students are welcome to explore other areas of communications outside of TRF, as long as they work closely with their advisor to secure permission. Study areas include, but are not limited to audio and radio, television and cinema studies, film and television production, screenwriting, or management.

Total: 36 Newhouse credits required.

Courses

Advertising

ADV 200 **Selected Topics 1-3 IR**

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ADV 206 **Advertising Practice in a Diverse Society 3 S**

Introduce students to the role of advertising in business. Students will learn basic concepts, regulations, ethics, and diversity associated with advertising as well as how advertising fits into the marketing structure of most industries.

ADV 207 **Writing Advertising Strategies and Executions 3 S**

Students are taught the fundamentals of developing advertising strategies for campaigns; presentation and defense of strategic plans as well as practice in creating advertisements from self-created strategies.

ADV 208 **The Big Idea in Advertising 3 S**

A look at the most creative advertising strategies and advertising agencies. Develop a critical understanding of a Big Idea in advertising; how it's developed, nurtured, exploited and the impact it can have.

ADV 300 **Selected Topics 1-3 IR**

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ADV 307 **Conceptual and Creative Thinking in Media Planning 3 IR**

Students learn media planning fundamentals to understand how different media are used to enhance the persuasive power of the advertising message. The class will prepare a media plan to support a marketing communications campaign.
PREREQ: ADV 208.

ADV 345 **Economics, Persuasion, and the Global Marketplace 3 Y**

Double Numbered with: ADV 645
Persuasive communications' impact on and relationship to society. Evaluation of effects of advertising on national and global economies. Critical evaluation of persuasive appeals. Discussion of marketing to children, political persuasion, alcohol and tobacco promotion. Additional work required of graduate students.
PREREQ: COM 107.

ADV 400 **Selected Topics 1-3 IR**

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ADV 401 **Portfolio I 3 S**

Major components that go into creating print ad campaigns including benefit, strategy, conceptual thinking, art direction, and copywriting.
PREREQ: ADV 207.

ADV 402 **Promotional Writing 3 S**

Forms of writing used in the major marketing communications disciplines, including advertising, sales promotion, direct marketing, and product publicity. Students will develop promotional executions in a variety of media. Emphasis on strategy development and writing.
PREREQ: ADV 206, 207.

ADV 421 **Portfolio II 3 S**

Students begin to craft their portfolios. They will complete a variety of advertising print campaigns that will readily demonstrate a strong command of layout, design, copywriting, and conceptual thinking.
PREREQ: ADV 401.

ADV 425 **Integrated Advertising Campaigns 3 S**

Function as a full service advertising agency, encompassing all the disciplines studied during the student's tenure at Newhouse. Students work with clients and execute a complete campaign, from strategy to creative executions and a media plan.
PREREQ: ADV 307 OR ADV 421..

ADV 431 **Portfolio III 3 S**

This course will help students complete their portfolios which will consist of 20 advertisements, including three complete ad campaigns. Oral presentation, job hunting, and the analysis of various ad markets.
PREREQ: ADV 307 OR 421.

ADV 500 **Selected Topics 1-6 IR**

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ADV 507 **Strategic Media Planning 3 S**

Students will develop a strategic and advanced working knowledge of advertising media planning and buying, audience measurement, media research, new media concepts, audience segmentation and sales presentation.
PREREQ: ADV 307.

ADV 509 **Advertising Research and Planning: A Case Study Approach 3 S**

Students will learn how to apply theory and practice of advertising research by analyzing cases and studies in marketing communications and academic publications. Account planning, qualitative, and quantitative research skills are emphasized.
PREREQ: ADV 208.

ADV 522 **Direct Response Advertising 3 IR**

Structure and organization of direct-response advertising. Regulatory agencies influencing direct-response advertising. Creative methods; research procedures for preparing, presenting, and evaluating direct-advertising campaigns. Problematic areas.

ADV 523 **Interactive Advertising and e-branding 3 IR**

Crosslisted with: ICC 523
Exploration of interactive advertising and e-branding. Strategies for building an online brand. Use of interactive technologies to develop customer relationships. Prereq: for ADV 523: ADV 206 and 207, and either ADV 401 or ADV 507/509; for graduate students: ADV 604. Prereq: for ICC 523: permission of department.
PREREQ: ADV 206, 207, ADV 401 OR ADV 206, 207, 507, 509 OR 604.

ADV 526 **Fashion Advertising and Promotion 3 Y**

How advertising and promotion build fashion brands, ranging from top designers to local retailers. Students learn how to apply the comprehensive strategic planning process used in advertising to build fashion brands.

ADV 535 **Advertising Practicum 3 IR**

Practical work experiences in advertising sales creativity, management, and research with advertisers, agencies, media, or auxiliary services. Weekly class sessions, discussions of supplemental advertising topics, daily journal entries and final experimental report. Restricted to juniors, seniors, and graduate students with permission of instructor.
PREREQ: ADV 207 OR ADV 401 OR ADV 402.

Broadcast And Digital Journali

BDJ 200 **Selected Topics 1-3 IR**

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

BDJ 204 **News in a Multimedia World 3 S**

The basics of cross-media writing for the web; and understanding how community institutions work and how to cover stories involving these institutions using multi-media.

BDJ 265 **Broadcast Journalism Studio Production 1 S**

Students are the technical support for the department's daily newscast. Emphasizing both studio positions, such as camera and floor managing, as well as control room positions, such as technical director.

BDJ 300 **Selected Topics 1-3 IR**

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

BDJ 311 **Broadcast and Digital Newswriting 3 S**

Basic style and construction of broadcast and digital news stories. Composing and writing radio, television, and web news stories under deadline pressure. Techniques of broadcast interviewing and information gathering.

BDJ 330 Selected Topics in Specialized Reporting I 3 IR

Introductory specialized reporting course, concentrating on a specific topic, such as sports journalism, and/or utilizing basic or intermediate-level technologies. Sophomore standing or above, student must be Broadcast Journalism major.
PREREQ: BDJ 364. R1, 6 credits maximum

BDJ 364 Radio and Digital Audio News Reporting 3 S

Gather, produce and report news in the radio and digital audio medium, including field experiences and newscast production in laboratories. Students will be required to analyze political stories, environmental issues, and other issues facing communities.
PREREQ: BDJ 204 OR NEW 205, COREQ: BDJ 311.

BDJ 400 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

BDJ 464 Television and Digital Audio News Reporting 3 S

Gathering and reporting news using electronic means. Edited TV and web news reports, under deadline pressure are final products. Tape, as well as live reporting exercises. Coordination with television newscasts. Junior standing.
PREREQ: BDJ 364 AND MPD 205.

BDJ 465 TV & Digital News Producing and Presenting 3 S

Writing, story selection, positioning of local and national stories; plus weather, sports, producing, and presenting. Presentation of news on the Internet and on-set taping of a complete news program. Senior standing.
PREREQ: BDJ 464.

BDJ 470 Experience Credit 1-6 IR

Participation in a discipline or subject related experience. Student must be evaluated by written or oral reports or an examination. Permission in advance with the consent of the department chairperson, instructor, and dean. Limited to those in good academic standing. R

BDJ 490 Independent Study 1-6 IR

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department. R

BDJ 499 Honors Thesis 3-6 IR
R

BDJ 500 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

BDJ 510 Topics in Specialized Practices I Y

Development of skills that enhance the news product. Different sections could focus on different specialized practices such as internet research or vocal performance
PREREQ: BDJ 204 OR NEW 205 OR BDJ 663. R2, 3 credits maximum

BDJ 530 Selected Topics in Specialized Reporting II 3 S

Event and issue-oriented reporting. Each section focuses on a content area such as politics, consumerism, or the environment. Upperclass or graduate standing and completion of a basic reporting class required.
PREREQ: BDJ 364 OR 464 OR 663 OR 664. R1, 6 credits maximum

BDJ 560 Television News Magazine Production I S

Students produce a weekly public affairs show, which explores topics important to the University and Syracuse community. This magazine show includes field reports and studio interviews. Student jobs include booking guests, reporting, and producing. R2, 3 credits maximum

BDJ 567 Advanced Newscast Producing and News Management 3 Y

The theory and practice of producing television newscasts. Introduces the basics of broadcast news management. Covers the concepts of being a newsroom leader.
PREREQ: BDJ 465.

Communications

COM 101 Practical Grammar for Public Communications I S

Understanding how Standard American English is used in Public Communications and developing the skills to apply that knowledge to writing and speaking.

COM 107 Communications and Society 3 S

Mass media and their functions. Contemporary problems of the media; legal, social, economic, and psychological implications of their relationships with society. Required of all students in the school.

COM 117 Multimedia Storytelling 3 S

Working in collaborative teams, students write, design and produce short fiction and non-fiction stories using digital media and the Internet. Emphasis on how story structures change with audience and delivery system.

COM 200 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

COM 300 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

COM 344 Diversity and Media Issues I S

Students will develop understanding of concepts such as social identity, stereotyping, ideology and hegemony. Apply concepts to areas such as news, sports media and contemporary music, through the use of case studies and online discussions.
PREREQ: COM 107, 117.

COM 346 Race, Gender, and the Media 3 S

Introduction of fundamental issues of diversity that confront media workers and audiences. Topics include roles, obligations, stereotypes, ownership of media in a multicultural society.
PREREQ: COM 107.

COM 347 Federal Government & the Media 3 IR

How journalists affect the policies and actions of government and how government officials seek to inform, influence, and sometimes obstruct the media. Topics include an examination of ethics and outcomes of often flawed media efforts.
PREREQ: COM 107.

COM 348 Beauty and Diversity in Fashion Media 3 Y

The issues that arise in the fashion industry and the messages that it communicates to the public through its associated media outlets.

COM 400 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

COM 408 Advertising and Public Relations Law 2 IR

A survey of legal issues relevant to advertising and public relations. Specific topics will include free speech, corporate speech, advertising regulations, political advertising, intellectual property, and defamation. Senior standing only

COM 411 Social and Public Issues in Public Communications 3 IR

Problems in decision making for mass-media professionals and institutions in context of current social and cultural issues.

COM 470 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

COM 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

COM 500 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

COM 505 Communications Law for Journalists 3 S

Survey of communications law emphasizing First Amendment issues: libel, privacy, confidentiality, access to information, etc. for journalists. Students may not receive credit for more than one of the following: COM 505,506,507.

COM 506 Communications Law for Television, Radio, Film 3 S

Survey of communications law emphasizing First Amendment and regulatory law as they pertain to television, radio, film. Students may not receive credit for more than one of the following: COM 505,506, 507.
PREREQ: TRF 235.

COM 507 Communications Law for Advertising and Public Relations 3 S

Survey of communications law emphasizing applications to advertising and public relations. Students may not receive credit for more than one of the following: COM 505,506,507.

COM 515 History of Media in the United States in the Modern Age 3 IR

Print and electronic media in the United States in the context of social and political developments in the 20th century.

COM 527 International Communications 3 IR

Communication of news and opinion among nations and under varying types of social, political, and economic systems. Roles of mass media, news agencies, governments, and communications systems. Offered at SU
Abroad Centers in London and Strasbourg.

Graphic Arts

GRA 217 Introduction to Graphic Design 3 S

Principles of digital design, composition, computerized layout, typography and imaging applied to advertising, public relations, and publication design for print and web. Introduction to the computer as layout and design tool for visual communications practice. Concurrent lab required.
COREQ: GRA 218.

GRA 218 Introductory Graphics Laboratory 0-3 S

Continuation of GRA 217. Students learn contemporary applications such as Photoshop, Illustrator and Indesign for print and web.
COREQ: GRA 217.

GRA 345 Visual Issues in the Media 3 Y

View and analyze the power of media images; pictures, infographics, trademarks, and graphic designs - still and motion. Political influences of television, representations of minorities and women, and ethics of images, for practitioners and audience members.
PREREQ" COM 107.

GRA 356 Type and Image for Multimedia 2 Y

Intermediate work in graphic design for design majors building on the foundations of writing, photography and graphic design. Students create original print and web design projects concentrating on typography, grid structure and multi-surface design. Portfolio review required.
PREREQ: PHO 301, GRA 217. COREQ: NEW 205.

GRA 357 Type and Image for Photography 3 IR

Intermediate work in graphic design for photo majors building on the foundations of writing, photography and graphic design from previous courses. Using photographic work from PHO 356 students produce final print and web design projects.
PREREQ: PHO 301, GRA 217; COREQ: NEW 205 AND PHO 356.

GRA 400 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

GRA 437 Typographic Design 3 Y

Double Numbered with: GRA 637
Exploration of proper techniques for the setting of typography. Study of history of graphic design and typeface design. Focus on expressive and functional use of type as it relates to print, web and motion graphics. Additional work required of graduate students.

GRA 447 Motion Graphics and User Experience 3 Y

Double Numbered with: GRA 647
Using the latest in motion graphics and interface design technologies, students learn to build rich user experiences. Students will create web user interfaces and multimedia productions using video, still images, audio and type. Additional work required of graduate students.

GRA 477 Graphic Design Problems 3 Y

Double Numbered with: GRA 677
Individual investigation into problems in graphic design. Collaborative work with other departments. Projects designed by students and carried out under guidance of faculty. Projects submitted for print or web.
PREREQ: GRA 437/637 OR GRA 447.

GRA 496 Senior Portfolio 0-3 S

Crosslisted with: PHO 496
Assembling final portfolio for a Visual and Interactive Communications faculty mentor to review and grade either pass or fail. Failing portfolios may be improved and resubmitted.
PREREQ: PHO 404 OR 425 OR GRA 577.

GRA 540 Advanced Design and Production 3 Y

Students work out plans, specifications, and details of design, layout, illustration, production. Classic and contemporary styles; functional design. Open only to seniors and graduate students who have completed the undergraduate courses in graphic arts or have had the equivalent in outside experience.
PREREQ: GRA 217 OR GRA 617. R1, 6 credits maximum

GRA 547 Magazine Design and Production 3 IR

Principles of magazine graphics using current practices and technology to create magazine designs. Digital typography, layout, cover design, computer-based production. Credit cannot be given for GRA 547 and GRA 567.
PREREQ: GRA 217 OR GRA 617.

GRA 550 Workshop in Typography 1-3 IR

Typographic work under faculty member or committee guidance. Individual or group projects with faculty assistance, critique. Projects include any typographic application to public communications. May not be repeated for credit.
PREREQ: GRA 217 OR GRA 617.

GRA 557 Information Graphics 3 IR

Principles and techniques of information visualization for public communications applications including journalism, advertising, and public relations. Emphasis on principles of quantitative and qualitative research for information graphics and techniques of visual narrative and information-based design.
PREREQ: GRA 356.

GRA 567 Advertising Production 3 IR

Development of ad campaigns from thumbnail sketches through finished comps. Emphasizing concept and its stylistically appropriate expression through typography, layout, and use of photography/illustration publishing standards including current computer software for design. Concurrent lab required.
PREREQ: GRA 217 OR GRA 617.

GRA 587 News Design 3 Y

Principles of typography, image editing, and design using computer pagination to solve problems in newspaper, magazine layout. Restricted to juniors, seniors, and graduate students.
PREREQ: GRA 217 OR 617.

Interactive Communications Core

ICC 300 Selected Topics: Interactive Communications Core 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ICC 400 Selected Topics: Interactive Communications Core 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ICC 500 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ICC 505 Web Journalism and Innovation 3 S

Collaborate with students and professors to produce engaging Web products for the campus community by utilizing multimedia skills, learning interactive Web production systems and gaining an understanding of the changing media landscape.

PREREQ: NEW 305 OR BDJ 364 OR NEW 617 OR BDJ 663.

ICC 523 Interactive Advertising and e-branding 3 Y

Crosslisted with: ADV 523

Exploration of interactive advertising and e-branding. Strategies for building an online brand. Use of interactive technologies to develop customer relationships. Prereq: for ADV 523: ADV 206 and 207, and either ADV 401 or ADV 507/509; for graduate students: ADV 604. Prereq: for ICC 523: permission of department.

ICC 565 Designing Interactivity 3 S

Students work in teams to design interactive computer-based public communication systems/applications. Using multimedia authoring systems of HTML, teams will research, design, and evaluate public communication problems for computer-based delivery.

PREREQ: GRA 217, NEW 205 OR PRL 205.

ICC 575 Communicating with Computers 3 IR

Using computers for interactive, multi-media programs and presentations with emphasis on information and entertainment. Students create individual projects using a time-based media software such as Flash.

PREREQ: ICC 565.

ICC 585 Advanced Interactive Communication 3 IR

Practical experience in non-linear storytelling and/or information design. Creation of messages and interfaces using audio, visual, and tactile cues to direct and enhance user comprehension. Delivery of content through CD-ROM and Internet technology.

PREREQ: ICC 555 OR ICC 565.

Magazine

MAG 205 An Introduction: Editorial, Ethics, and the Business of Magazines 3 S

An exploration of the editorial side of magazines, the roles advertising and circulation play in revenue generation, and the ethical challenges faced by writers, editors, photographers, and designers. Major report on magazine of student's choice.

PREREQ: COM 107.

MAG 406 Magazine Article Writing 3 Y

Writing and selling basic types of magazine articles: ideas, slanting, research, organization, dealings with editors. Students write one full-length article. Additional work required of graduate students.

PREREQ: MAG 205, NEW 305.

MAG 407 Writing Portfolio 3 IR

Writing longer and more complex forms of articles and the creation of a digital portfolio of work in which students research and write a major article and weekly pieces for a blog or personal website under close editorial supervision of instructor.

PREREQ: MAG 406, 408.

MAG 408 Magazine Editing 3 Y

Editing and rewriting copy for magazines: ideas, heads, decks, story organization. Pictures, layout, dummy production. Additional work required of graduate students.

PREREQ: MAG 205, NEW 305.

MAG 409 FIRST ISSUE: Starting a Magazine 3 Y

Problems and opportunities that magazine and magazine web editors face each day. A variety of topics ranging from ethics to covers, editorial mix, positioning a magazine and its online extension.

PREREQ: MAG 406, 408.

MAG 500 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

MAG 518 Critical Writing 3 Y

Criticism and its function in journalism. Reviewing books, plays, motion pictures, and other art forms.

PREREQ: NEW 205.

MAG 538 Travel Writing 3 Y

Writing and selling magazine articles about traveling and specific geographic areas. Students will write in a variety of styles, especially exploring the narrative form.

PREREQ: NEW 305 OR NEW 617.

Multimedia, Photography And De

MPD 205 Photography for Broadcast News 2 IR

Foundation in the principles and skills of photography and visual journalism as a base for motion media.

PREREQ: COM 117..

MPD 406 Advertising and Illustration Photography Capstone 3 IR

Double Numbered with: MPD 606
Using advanced photo illustration skills, students collaborate with other Newhouse majors and on a major department project. Students develop their individual brand producing multimedia work for their print and web portfolio. Students cannot receive credit for more than one of the following: MPD 406/606, MPD 426/626, MPD 478/678.

Additional work required of graduate students.
PREREQ: PHO 404.

MPD 426 Multimedia and Photojournalism Capstone 3 Y

Double Numbered with: MPD 626

Using advanced multimedia and journalism skills students work in collaboration with other Newhouse majors and on a major department project. Students develop their individual brand producing multimedia work for their print and web portfolio. Students cannot receive credit for more than one of the following: MPD 406/606, MPD 426/626, MPD 478/678.

Additional work required of graduate students.

MPD 478 Graphic Design Capstone 3 IR

Double Numbered with: MPD 678

Using advanced interactive and graphic design skills students work in collaboration with other Newhouse majors and on a major department project. Students develop an individual brand producing multimedia work for their print and web portfolio. Students cannot receive credit for more than one of the following: MPD 406/606, MPD 426/626, MPD 478/678.

Additional work required of graduate students
PREREQ: GRA 477.

Newspaper

NEW 205 News Writing 3 S

Basic techniques in news gathering and writing. Emphasis on accuracy, concise presentation, and meeting deadlines. Styles, grammar, spelling, sentence structure, story organization, and copy preparation.

NEW 305 Reporting 3 S

Reporting and writing of news stories from information gathered through interviewing, document research, data base retrieval, and observation.

PREREQ: NEW 205.

NEW 318 Elements of Newspaper Business Practice 3 IR

Principles and problems of the newspaper as a business enterprise. Policies, organization, personnel. Projects in editorial and management costs, advertising copywriting, and selling, circulation, promotion, and readership.

NEW 345 Critical Perspective on News 3 S

Crosslisted with: RTN 345

Key issues confronting working journalists and news consumers. Evaluation of media performance, ethics, and practices, focusing on how well they serve society; research, site visits, discussion of written papers.

PREREQ: COM 107.

NEW 405 Advanced Reporting 3 S

Writing based on the reporting of public affairs including the coverage of beats, development of sources, investigative news gathering techniques and interpretive writing.

PREREQ: NEW 305 OR BDJ 311.

NEW 496 Senior Portfolio 0-3 IR

Assembling final portfolio for a Newspaper and Online Journalism faculty mentor to review and grade either pass or fail. To complete the major, a student must receive a grade of P. Students should register for this course, after they take NEW 305, in the semester in which they achieve senior standing.
PREREQ: NEW 305.

NEW 500 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

NEW 507 Research in Reporting 3 IR

Qualitative and quantitative approaches to research used by practicing writers and editors in all media.
PREREQ: NEW 205, COM 107.

NEW 508 Newspaper Editing 3 S

Preparation of copy for publication. Headline writing. Correction of copy. Evaluation of news. Condensation of news stories. News display and makeup.
PREREQ: NEW 205, GRA 217 OR NEW 605, GRA 617.

NEW 509 Advanced Newspaper Editing 3 Y

Copy editing, headlines, visuals, design, and technology. Handling departments and special sections, editing complex copy. Significant trends in newspaper editing.
PREREQ: MAG 408 OR NEW 508 OR MNO 608.

NEW 528 Newspaper Administration 3 IR

Coordination of departments. Sources of income. Publication costs. Relative expenses for management, advertising, circulation, and the mechanical and editorial departments. Salary and wage schedules. Labor relations.

NEW 530 Selected Topics in Specialized Reporting 3 S

Event- and issue-oriented reporting in politics, courts, science, environment, minorities, education, local government. One news area to a section. Open only to juniors, seniors, and graduate students.
PREREQ: NEW 305. R1, 6 credits maximum

NEW 535 Newspaper and Magazine Practicum 1-3 S

Practical on-site experience reporting and writing for Central New York newspapers and magazines. Weekly class sessions. Discussion of supplementary journalistic topics. Class assignments. Research paper. Restricted to juniors, seniors, graduate students.
PREREQ: NEW 305 OR 617. R2, 3 credits maximum

Photography**PHO 200 Selected Topics 1-3 IR**

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

PHO 204 Introduction to Photography 3 Y

Introduction to camera handling, functions, and controls. Principles of composition, development, and printing. In London only.

PHO 206 Photography for Broadcast News 0-3 IR

Continuation of PHO 205. Lab work in video editing and electronic imaging to support PHO 205.

PHO 300 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

PHO 301 Introduction to Photography for Multimedia 3 S

Fundamentals of communications photography, digital imaging, content, composition, sound and motion as the foundation for print and multimedia production.
COREQ: PHO 556.

PHO 302 Principles of Photography II 3 IR

Extensive experience in location lighting for photojournalism and advertising photography. Fundamentals of color photography and digital technology.
PREREQ: PHO 301.

PHO 356 Photography for Multimedia 2 IR

Practical course in intermediate photographic skills emphasizing lighting, retouching and image enhancement, color theory, storytelling, and human representation through photojournalism, portraiture and fashion photography. Students create original imagery for print and multimedia. Portfolio review required.
PREREQ: PHO 301, GRA 217; COREQ: NEW 205, GRA 357.

PHO 400 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

PHO 403 Advertising and Illustration Photography I 3 S

Double Numbered with: PHO 603
Lecture, studio, and laboratory on producing digital, still, motion and sound for commercial and advertising content for print and web. Emphasis on concept generation and studio and location lighting. Additional work required of graduate students. Graduate student must be admitted into program or portfolio review.
PREREQ: GRA 356 OR PHO 356 AND GRA 357.

PHO 404 Advertising and Illustration Photography II 3 Y

Double Numbered with: PHO 604
Lecture, studio, and lab and computer production of advanced products for web and print advertising. Emphasizing the use of live models for portraiture, product and fashion photography. Professional business practices. Additional work required of graduate students.
PREREQ: PHO 403/603.

PHO 405 Photojournalism and Multimedia 3 Y

Double Numbered with: PHO 605
Principles and practices of photojournalism and multimedia storytelling. Photographing news, features, portraits, and sports. Picture story and essay production using digital, still, video, and sound. Location lighting techniques. Marketing practices. Additional work required of graduate students.
PREREQ: GRA 356 OR PHO 356.

PHO 425 Picture and Multimedia Editing 3 Y

Double Numbered with: PHO 625
Develops newspaper and magazine picture editor's management skills for multimedia storytelling. Communicative qualities of images and sound and how they affect decisions of picture use in publications and on the web. Additional work required of graduate students.
PREREQ: PHO 405.

PHO 496 Senior Portfolio 0-3 S

Crosslisted with: GRA 496
Assembling final portfolio for a Visual and Interactive Communications faculty mentor to review and grade either pass or fail. Failing portfolios may be improved and resubmitted.
PREREQ: PHO 404 OR 425 OR GRA 577.

PHO 500 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

PHO 510 Photographic Workshop 3 S

Advanced photography. Problems in advertising illustration, photojournalism, and digital imaging. Emphasizing selection, composition, and content suitable for communication media. R1, 6 credits maximum

PHO 511 Color Imaging 3 IR

Technical and creative application of color theory and color-imaging technology for communications.

PHO 515 Contemporary Photography 3 IR

Contemporary photography in illustration, advertising, and journalism. Aesthetic and communicative aspects. Lecture course without laboratory.

PHO 530 Selected Topics in Photography 3 Y

In-depth study of different professional photography specializations including sports photography, fashion and portrait photography, documentary photography, architectural photography, and other topics selected by the department.
PREREQ: PHO 403/603 OR 405/605. R2, 9 credits maximum

PHO 555 Photography for Newspaper and Magazine 3 S

Basic principles and uses of news photography as medium of communication. Photographic medium as used by editors. Not open to photography majors.

PHO 556 **Basic Photo Lab 0-6 S**
Basic photo lab for PHO 301 or PHO 555.
COREQ: PHO 301 OR PHO 555.

PHO 560 **Advanced Photo Lab 0-6 S**
Advanced photo lab to support advanced photography course work. Enrollment in advanced photography courses. R7

PHO 581 **Photographic Workshop 3 Y**
Advanced photography workshop in advertising and/or photojournalism. Emphasis on content suitable for publication in communications media. Offered London campus only.

Public Relations

PRL 206 **Public Relations Principles and Concepts 3 S**
Introduction to growing field of public relations, its history and its future; careers; job requirements; role as a management function building two-way communication for organizations and their publics; ethics and social responsibility; social media impact.
PREREQ: COM 107.

PRL 214 **Writing for News and Public Relations in a Digital Age 3 S**
Introduction to basic fundamentals of good writing, news writing, news values and basic reporting; writing public relations forms with creation of a Webinar; AP Style, achieving consistently high-quality news and public relations writing.
PREREQ: COM 107, WRT 105.

PRL 215 **Advanced Public Relations Writing for a Digital World 3 S**
Builds on news/media writing and fundamental writing skills to develop advanced public relations writing for digital and traditional outlets; media relations writing; crisis communications; news conferences; and writing in a diverse, multicultural world.
PREREQ: PRL 206, 214 OR PRL 206, NEW 205 OR ADV 206 , 208.

PRL 300 **Selected Topics:Public Relations 1-3 IR**
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

PRL 315 **Public Relations Research 3 S**
The application of social science research methods to solve public relations planning, implementation, and evaluation problems. Students design and carry out actual research projects and produce final client reports.
PREREQ: PRL 206.

PRL 325 **Public Relations Campaign Planning and Execution 3 S**
Students apply management, strategic planning, problem solving, tactics and research to client needs. Teams design, execute and evaluate appropriate integrated campaigns for actual clients. Frequent client/team contact and interaction required. Junior standing.
PREREQ: PRL 215, 315.

PRL 345 **The Ethics of Advocacy 3 Y**
Double Numbered with: PRL 645
Study and application of moral philosophy to ethical decision making in organizations. Examines ethical challenges in public relations, business management, advocacy, public affairs, or other career avenues. Junior standing. Additional work required of graduate students.

PRL 400 **Selected Topics 1-3 IR**
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

PRL 497 **Public Relations Management 3 S**
Capstone course to understand management of public relations in an organizational context, apply best practices in diverse and challenging global environments, using the managerial process of planning and decision making, organizing, controlling and leading. Senior standing.
PREREQ: PRL 215, PRL 315.

PRL 500 **Selected Topics 1-3 IR**
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

PRL 525 **Public Relations Practicum 3 S**
On-site work experience in the Syracuse area to acclimate students to the realities of organizational life; to explore one type of public relations in depth; to apply classroom theory to the solution of everyday communications problems and to develop additional work samples for professional portfolios.
PREREQ: PRL 215, 315, 325.

PRL 530 **Special Topics in Public Relations 1-3 Y**
In-depth look at different public relations specializations, including media relations, government relations, investor relations, crisis communications, employee communications, and sports information. R2, 3 credits maximum

Radio/Television News

RTN 300 **Selected Topics 1-3 IR**
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

RTN 345 **Critical Perspective on News 3 S**
Crosslisted with: NEW 345
Key issues confronting working journalists and news consumers. Evaluation of media performance, ethics, and practices, focusing on how well they serve society; research, site visits, discussion of written papers.
PREREQ: COM 107.

RTN 566 **Special News Coverage 3 IR**
Planning and production of longer news-related program segments. Writing, research, execution of minidocumentaries and enterprise reports. Field material will be edited for air-ready television presentation.
PREREQ: BDJ 464.

Television, Radio, And Film

TRF 155 **Script, Picture & Sound 3 IR**
Introduces structures and aesthetics of message design in the electronic media and in film through the study of its three principle components: language, picture and sound. Production technology laboratory included.

TRF 205 **Sight, Sound and Motion 3 S**
Study and practice of the aesthetic structures and production processes involved in creating effective motion picture, television and sound content.
PREREQ: COM 117.

TRF 211 **Screenwriting 3 S**
Exploring the craft of writing involved in motion picture, television and digital media storytelling through in-depth study and practice.
PREREQ: COM 117.

TRF 235 **Principles and Practices: Television-Radio, Film Industries 3 S**
Origins and dynamics of corporate structures, revenue models, content, distribution, and regulation in the television, radio, film, and interactive media industries.
PREREQ: COM 107.

TRF 255 **Intro to Writing and Producing 3 S**
Introduction to writing, designing, planning, and producing sound, film, video, and television programs in both multi-camera and single camera environments.
PREREQ: TRF 155.

TRF 300 **Selected Topics 1-3 IR**
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

TRF 345 **Critical Perspectives: Electronic Media, Film 3 Y**
Non-print media as art forms and social, political, and cultural forces. Critical analysis of individual products of broadcasting and motion pictures in relation to the systems for which they were created.
PREREQ: COM 107.

TRF 400 **Selected Topics 1-3 IR**
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

TRF 411 Dramatic Writing for Television and Film 3 S

Double Numbered with: TRF 611
Preparing and writing scripted dramatic material for small and large screen. Script evaluation, working as a professional writer, and the stages of script development. Additional work required of graduate students.
PREREQ: TRF 255.

TRF 412 Persuasive Writing 3 IR

Double Numbered with: TRF 612
Writing commercials, public service announcements, and other types of persuasive scripts. Additional work required of graduate students.
PREREQ: TRF 255.

TRF 413 Writing and Designing the Documentary 3 IR

Double Numbered with: TRF 613
Write documentary proposals, treatments, and scripts. Introduction to the documentary production and distribution process. Screening classic documentaries. Additional work is required of graduate students.
PREREQ: TRF 255.

TRF 414 Writing and Designing for Interactive Media 3 IR

Double Numbered with: TRF 614
Write proposals, treatments, and scripts for interactive multimedia. Introduction to multimedia production process. Students design and produce a "prototype" or representative sample of a multimedia program. Additional work is required of graduate students.
PREREQ: TRF 255.

TRF 421 Feature Film Writing 3 Y

Double Numbered with: TRF 621
Study and practice of the craft of feature film writing. Additional work required of graduate students.
PREREQ: TRF 411.

TRF 422 Comedy Writing 3 S

Double Numbered with: TRF 622
Study and practice of the craft of comedy writing for television and film. Additional work required of graduate students.
PREREQ: TRF 411.

TRF 424 Script Development 3 Y

Double Numbered with: TRF 624
Screenwriting theory and the script development process: writing topics include story structure, genres, character development, dialogue, and script formatting. Business topics include pitching, writing script coverage, supervising development, and breaking into the industry. Additional work is required of graduate students.

TRF 434 Children and Television 3 IR

Double Numbered with: TRF 634
A critical and comprehensive survey of the social and behavioral science research on the role of television and other media in the lives of children and adolescents.

TRF 435 History of Primetime Television 3 Y

Critical and historical analysis of American primetime television as a social and cultural force.

TRF 436 Social Effects of Television 3 IR

Influence of mass media, especially television, on American society. Television from perspectives of social psychology, child development, political science, and sociology.

TRF 450 Advanced Practice: Special Projects 1-3 Y

Double Numbered with: TRF 650
Faculty member works with student on project especially tailored for his/her unique content objectives. Additional work required of graduate students.
PREREQ: TRF 451 OR 452 OR 453 OR 454 OR 456 OR 457 OR 458 OR 459. R5, 6 credits maximum

TRF 451 Filmmaking 3 S

Double Numbered with: TRF 651
Student teams produce and edit short films using digital production and post production technology. Emphasis on narrative filmmaking. Additional work required of graduate students.
PREREQ: TRF 255.

TRF 452 Television Production 3 S

Double Numbered with: TRF 652
Experience in writing, designing and producing programs in the multicamera, television-style tradition. Additional work required of graduate students.
PREREQ: TRF 255.

TRF 453 Shortform Production 3 Y

Double Numbered with: TRF 653
Techniques of shortform moving image media such as commercials, promos, music videos, show openings, special effects, and high impact packaging. Additional work required of graduate students.
PREREQ: TRF 255.

TRF 454 Music Recording 3 Y

Double Numbered with: TRF 654
Students produce a recording of a musical performance in a 24-track recording studio. Topics include: Aesthetics of recorded sound, acoustics, psycho-acoustics, the multitrack recording process, mixing, microphone techniques, signal processing. Additional work required of graduate students.
PREREQ: TRF 255.

TRF 456 Sound for Picture 3 Y

Double Numbered with: TRF 656
Introduction to theory and production of sound for television and film. Includes information processing, aesthetics, perception of sound, sound/picture relationship, analog and digital sound studios, production recording, signal processing, nonlinear editing and mixing. Additional work required of graduate students.
PREREQ: TRF 255.

TRF 457 Music Underscoring 3 Y

Double Numbered with: TRF 657
The theory and practice of producing music to underscore visual material. Additional work required of graduate students.
PREREQ: TRF 255.

TRF 458 Radio Practicum 3 Y

Double Numbered with: TRF 658
Guided experience in professional radio environments. Areas of expertise include sales, programming, production, promotions, engineering, news/public affairs, and performance. Additional work required of graduate students.
PREREQ: TRF 255.

TRF 459 Documentary Production 3 S

Double Numbered with: TRF 659
Student teams write, produce, and edit documentary projects. Additional work required of graduate students.

TRF 461 Advanced Management Seminar 3 IR

Double Numbered with: TRF 661
Business of communications industry focusing on management skills and their effective application. Additional work required of graduate students.
PREREQ: TRF 483 OR 592 OR 593 OR 594 OR 595.

TRF 465 Production Practicum-Television 3 Y

Double Numbered with: TRF 665
Students write, design, produce, direct, and program projects specifically for television presentation. Additional work required of graduate students.
PREREQ: TRF 451 OR 452 OR 453 OR 454 OR 456 OR 457 OR 458 OR 459.

TRF 467 Screenwriting Master Class 3 Y

Double Numbered with: TRF 667
Advanced practice built around professional workshops, sponsored by the Center for Popular Television, and guest speakers. Students interact with professionals while working on their screenwriting portfolios. Additional work required of graduate students.
PREREQ: TRF 451 OR 452 OR 453 OR 454 OR 456 OR 457 OR 458 OR 459.

TRF 468 Advanced Practice: Audio 3 IR

Double Numbered with: TRF 668
Independent and specialized practice in audio, including sound tracks for film or television; CD albums; radio drama; or spot announcements. Additional work required of graduate students.
PREREQ: TRF 451 OR 452 OR 453 OR 454 OR 456 OR 457 OR 458 OR 459.

TRF 469 Advanced Practice: Filmmaking 3 Y

Double Numbered with: TRF 669
Students propose independent film projects (fiction or documentary), and if approved, produce them using digital video and sound technology. Additional work required of graduate students.
PREREQ: TRF 451 OR 452 OR 453 OR 454 OR 456 OR 457 OR 458 OR 459.

TRF 483 Communications Industry Frontiers 3 Y

Double Numbered with: TRF 683
Overview of the trends in business, technology, and regulation that are likely to have an impact on the communications sector. Additional work required of graduate students.

TRF 496 Research in Broadcasting 3 IR
Methodology adapted to solving problems in radio and television broadcasting. Techniques of audience measurement, program evaluation, and community survey. Use of data by professional research services.

TRF 500 Selected Topics 1-3 IR
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

TRF 510 Specialized Practice 1 S
These four-week mini-courses provide specific areas of study not covered in depth in other courses. Examples: Production Management, Budgeting, Editing, Lighting, Location Sound, Videography, and others based on faculty and student interest.
PREREQ: TRF 235, 255 OR 635, 655. R

TRF 530 Popular Culture Studies 3 S
In-depth examination of critical issues, aesthetics, genre, and authorship involved in electronic media and cinema. Topics range from television genres to film classics. R3, 12 credits maximum

TRF 545 Television & Radio Performance 3 Y
Theory and practice of effective television and radio performance. Closed circuit studio experience planning and presenting educational and commercial material.

TRF 560 Topics in International Perspectives 3 Y
In-depth examination of issues and practices involved in international television and film. Topics alternate from semester to semester. Examples include: Global Communication, Ways of Seeing, Comparative Systems, and British Cinema. R1, 6 credits maximum

TRF 592 Film Business 3 S
Economics of the film industry. Financing of films, budgets, sources of funds, contracts. Securing distribution. National and international marketing of films. Film rental. Booking films for television or theater. Exploitation of ancillary markets.

TRF 593 Radio Business 3 Y
Organization and operation of commercial and noncommercial radio stations. Staffing, designing formats, and promotion.

TRF 594 Television Business 3 S
Management principles and practices in electronic media; organizational structures, financial controls, revenue procurement, economic theory, management law, product development, and personnel administration.

TRF 595 Programming and Audience Analysis 3 Y
Immersion in the principal programming functions of content development and acquisition, scheduling, and promotion. Survey of scheduling strategies and case studies, hits and misses. Research techniques to understand audience program preferences and choices.

Faculty

Courtney Barclay, Assistant Professor, Communications
Ph.D., University of Florida, 2008
Media law, mass communication

Frank Biocca, Professor; Newhouse Chair; Communications
Ph.D., University of Wisconsin--Madison, 1986
Mass communication, human-computer interaction, media psychology

Shannon Bowen, Associate Professor, Public Relations
Ph.D., University of Maryland, 2000
Mass communication, ethics, business management and communications

Lorraine Branham, Professor and Dean, Newspaper and Online Journalism
B.A., Temple University, 1976
News editing, journalism, publishing

Richard Breyer, Professor, Television, Radio and Film; Co-Director, Documentary Film and History
M.A., New York University, 1967
Television production, documentary/educational writing and production

Harriet Brown, Assistant Professor, Magazine
M.F.A., Brooklyn College, 1982
Magazine writing and editing, creative writing

Hubert Brown, Associate Professor, Broadcast and Digital Journalism; Associate Dean for Creative and Scholarly Activity
M.A., University of Nebraska at Lincoln, 1993
Political reporting, writing, producing, and minority broadcasting

Melissa Chessher, Associate Professor, Chair, Magazine; Director, Magazine, Newspaper and Online Journalism Program
M.A., Baylor University, 1987
Magazine writing and editing

Fiona Chew, Professor, Television, Radio and Film; Director, Lerner Center for Health Communications and Promotion
Ph.D., University of Washington, 1985
Television research, the media and public health

Makana Chock, Assistant Professor, Communications
Ph.D., Cornell University, 2004
Health communication, persuasion, risk communication

Michael Cremedas, Associate Professor, Broadcast and Digital Journalism
Ph.D., University of Florida, 1988
Broadcast writing, reporting, and production; viewer retention of broadcast news

Frank Currier, Professor of Practice, Broadcast and Digital Journalism
M.A., University of Missouri at Columbia, 1968
Broadcast news writing and reporting

Steve Davis, Associate Professor, Chair, Newspaper and Online Journalism
B.J., University of Missouri at Columbia, 1977
News writing and reporting, impact of the Internet on politics

Joan Deppa, Associate Professor, Newspaper and Online Journalism
Ph.D., Michigan State University, 1981
News writing, reporting, media coverage of terrorism

Richard Dubin, Professor of Practice, Television, Radio and Film
Television writing, directing, and production; film business

Larry Elin, Associate Professor, Television, Radio and Film
B.S., Syracuse University, 1973
Television production and computer-based interactive multimedia, politics and the Internet

Amy Falkner, Associate Professor, Advertising; Associate Dean for Academic Affairs
M.A., Syracuse University, 1989
Media planning, advertising to gay and lesbian markets

Elizabeth Flocke, Professor, Newspaper and Online Journalism; Communications
Ph.D., University of Missouri, 1988
News writing, communications law, media history

Barbara Fought, Associate Professor, Broadcast and Digital Journalism; Communications
J.D., University of Detroit, 1992
Communications law, broadcast news writing and reporting, access to information

Seth Gitner, Assistant Professor, Newspaper and Online Journalism
B.F.A. Rochester Institute of Technology, 1995
Photojournalism and multimedia web content

Tula Goenka, Associate Professor, Television, Radio and Film
M.S., Syracuse University, 1986
Film and television production, global film

Anthony Golden, Associate Professor, Chair, Multimedia Photography and Design
Ph.D., Syracuse University, 1986
Advertising and illustration photography

Bradley Gorham, Associate Professor, Chair, Communications
Ph.D., University of Wisconsin-Madison, 2002
Media and society; media effects; race, gender, and media

Charlotte Grimes, Knight Professor of Political Reporting; Newspaper and Online Journalism
B.S., East Carolina University
Media and politics, political reporting, journalism ethics

Ken Harper, Assistant Professor, Multimedia Photography and Design
M.A., Ohio University, 2009
Graphics and interactive design

Dona Hayes, Associate Professor, Chair, Broadcast and Digital Journalism
M.S., Syracuse University, 1976
Broadcast news writing, reporting, and production

Sharon Hollenback, Professor, Television, Radio and Film
Ph.D., University of Texas at Austin, 1980
Television writing, media and society

Jong-Hyuok Jung, Assistant Professor, Advertising
Ph.D., University of Texas at Austin, 2009
Mobile advertising, advertising effectiveness in new media, interactive advertising management

Joel Kaplan, Associate Professor, Newspaper and Online Journalism; Associate Dean for Graduate Professional Studies
M.S.L., Yale Law School, 1991
News writing, investigative reporting, media law

Johanna Keller, Associate Professor, Newspaper and Online Journalism; Director, Goldring Arts Journalism Program
M.A., Antioch, 1996
Magazine writing and editing, critical writing, cultural reporting

Dennis Kinsey, Associate Professor, Public Relations; Co-Director, Public Diplomacy Program
Ph.D., Stanford University, 1994
Public relations theory and research, political public relations, Q-methodology

Robert Kucharavy, Professor of Practice, Public Relations
B.A., Le Moyne College, 1969
Public relations management and crisis communications

Carol Liebler, Associate Professor, Communications; Director of Doctoral Studies and the Media Studies Master's Program
Ph.D., University of Wisconsin-Madison, 1989

Communications theory and methodology, media and the environment, media and gender

E. Robert Lissit, Associate Professor, Broadcast and Digital Journalism
M.S., Northwestern University, 1957
Broadcast news writing, producing, reporting, and ethics

Carla Lloyd, Associate Professor; Advertising
Ph.D., Syracuse University, 1994
Advertising media, research, campaigns, copywriting, and fashion advertising

Robert Lloyd, Professor of Practice, Newspaper and Online Journalism
M.A., Syracuse University, 1979
News writing and reporting, media and society

Patricia Longstaff, Professor, Television, Radio and Film
M.P.A., Harvard University, 1994
Communications law, regulation of new communications technologies

Suzanne Lysak, Assistant Professor, Broadcast and Digital Journalism
B.S., Boston University, 1985
Broadcast news producing, news management, television news employment issues

Stephen Masielat, Associate Professor, Newspaper and Online Journalism;
Coordinator of Interactive Communications Core; Director of Media Management Program
M.P.S., Cornell University, 1992
Multimedia, the Internet as a tool of communication

Lawrence Mason Jr., Professor, Communications; Multimedia Photography and Design
Ph.D., Syracuse University, 1979
Communications and society, photojournalism, fashion photography, interactive media

Peter Moller, Professor, Television, Radio and Film
M.A., University of Pennsylvania, 1967
Television production, script writing, interactive media, directing

John Nicholson, Professor of Practice, Broadcast and Digital Journalism
B.S., Syracuse University, 1968
Broadcast news writing and reporting, sports journalism

R. Niebuhr, Associate Professor, Newspaper and Online Journalism; Director, Carnegie Religion and Media Program
M.A., Oxford University, 1980
Religion and the media, newswriting, reporting

Mark Obbie, Associate Professor, Magazine
M.A., University of Missouri, 1981
Legal affairs reporting, First Amendment law, magazine writing and editing

Douglas Quin, Associate Professor, Television, Radio and Film
Ph.D., The Union Institute and University, 1999
Acoustic ecology, sound production

David Rubin, Professor; Dean Emeritus; Communications
Ph.D., Stanford University, 1972
Communications law, the media and society, arts journalism

Edward Russell, Assistant Professor, Advertising
M.S., Northwestern, 1982
Principles of advertising, branding, new methods of persuasive communications, campaigns, copy writing

Maria Russell, Professor, Public Relations; Director, Communications Management Independent Study Degree Program
M.S., Syracuse University, 1972
Public relations management, professional development in public relations

Kandice Salomone, Associate Professor, Communications
Ph.D., Syracuse University, 1992
Communications research

Michael Schoonmaker, Associate Professor, Chair, Television, Radio and Film
Ph.D., Syracuse University, 1994
Television production and webcasting

Brian Sheehan, Associate Professor, Advertising
M.A.T., Loyola Marymount University, 2007
Branding, advertising strategy, integrated campaigns

Pamela Shoemaker, John Ben Snow Professor of Communications
Ph.D., University of Wisconsin-Madison, 1982
Gatekeeping, cross-cultural study of news

Evan Smith, Associate Professor, Television, Radio and Film
M.S., Syracuse University, 1979
Television and feature film script writing, comedy writing, the film business

Bruce Strong, Associate Professor, Multimedia Photography and Design
M.A., Ohio University, 2005
Multimedia storytelling and the Internet, photojournalism, video journalism

David Sutherland, Associate Professor, Multimedia Photography and Design
M.A., Western Kentucky University, 1973
Photojournalism

Sherri Taylor, Adjunct Professor/Administrator, Multimedia Photography and Design; Director, Empire State Scholastic Press Association
M.A., Syracuse University, 1990
Graphic design, scholastic press

Robert Thompson, Trustee Professor of Television and Popular Culture; Television, Radio and Film, Director, Bleir Center for Television and Popular Culture
Ph.D., Northwestern University, 1987
Television criticism, television and popular culture

Donald Torrance, Associate Professor, Broadcast and Digital Journalism; Television, Radio and Film
B.A., Alfred University, 1971
Broadcast news writing and production, the media and public health

James Tsao, Professor; Chair, Advertising
Ph.D., Temple University, 1989
Online advertising, international advertising, community newspapers/marketing

Chris Tuohy, Associate Professor, Broadcast and Digital Journalism
M.A., Ohio State University, 1990
Broadcast news reporting and writing, sports journalism

Francis Ward, Associate Professor, Newspaper and Online Journalism; Communications
M.A., Syracuse University, 1961
Newspaper reporting, writing, ethics, race and the media, history of the black press

Randy Wenner, Adjunct Professor/Administrator, Broadcast and Digital Journalism
M.S., Syracuse University, 1996
Broadcast news writing, producing, and reporting

Jay Wright, Professor, Newspaper and Online Journalism; Communications
Ph.D., Syracuse University, 1977
Communications law

Roosevelt Wright Jr., Associate Professor, Television, Radio and Film
Ph.D., Syracuse University, 1993
Radio programming and management; performance and announcing

Brenda Wrigley, Associate Professor, Chair, Public Relations
Ph.D., Syracuse University, 1999
Gender issues in public relations, public relations management, campaigns, and writing

Sung-Un Yang, Assistant Professor, Public Relations
Ph.D., University of Maryland, 2005
Organizational reputation, public relations research

College Of Visual And Performing Arts

Ann Clark, Dean
200 Crouse College
vpa.syr.edu/



About The College

The College of Visual and Performing Arts at Syracuse University is committed to the education of cultural leaders who will engage and inspire audiences through performance, visual art, design, scholarship, and commentary. The college provides the tools for self-discovery and risk-taking in an environment that thrives on critical thought and action.

The College of Visual and Performing Arts is dedicated to nurturing the creative and scholarly abilities of its students. The college, which is at the center of the University's cultural life, is organized into four areas: the School of Art and Design, the Department of Communication and Rhetorical Studies, the Department of Drama, and the Setnor School of Music. Recognizing the link between education, understanding, and cultural knowledge, the College of Visual and Performing Arts is also committed to providing sites for learning about diversity throughout its curricula.

General Regulations

For academic rules and regulations that apply to all University students, see the Academic Rules and Regulations section of this catalog, which also contains special regulations that apply to all undergraduate students matriculated in the College of Visual and Performing Arts.

INTRA-UNIVERSITY TRANSFER

Applications for intra-University transfer are available in the Office of Recruitment and Admissions, 202 Crouse College. Applications are held until the end of the semester.

TRANSFER CREDIT

Transfer of credit is considered only for courses that may be applied to the program in which the student is interested. In the School of Art and Design, Department of Drama, Department of Transmedia, and the Setnor School of Music, transfer students often have an excess of credits in academic subjects that cannot be applied to a specific program due to the high number of studio credits required. The result may be that the period of undergraduate study is extended beyond the usual four years. In the Setnor School of Music, placement examinations in music theory and applied music are also required before credit is accepted.

In all cases, transfer credit is evaluated after admission. Credits—not grades or honor points—are transferred from other institutions. Only credits earned at Syracuse University are counted in the grade point average.

All transfer students not previously contacted about the transfer of academic credit should report as early as possible after their arrival on campus to the Office of Student Affairs, 204 Crouse College.

FEES

All VPA students are charged a program fee that covers certain expenses such as applied music instruction, specialized studio art supplies, dramatic productions, visiting artists, and equipment and technology. Non-VPA students are charged an applied music fee for private instruction and a per credit fee for other VPA courses. See the SU Tuition, Fees and Related Policies bulletin for specific charges.

The First - Year Experience

All first-year students are assigned faculty advisors to help them plan their programs. In all five areas of the college, first-year courses and programs address the adjustment and integration of first-year students into college life. In each area, the emphasis is on small class size, one-to-one contact with faculty, the development of skills, and the personal appropriateness of each student's choice of professional pursuit.

First-year students in one of the School of Art and Design's B.F.A. art and design programs or the B.I.D. program take the foundation program, which includes both required and elective academic options. In the Department of Transmedia, the first-year student experience is designed to introduce students to studio practice, history, and theory of the media, with an emphasis on the interconnectedness of all four areas of transmedia.

In the Department of Communication and Rhetorical Studies, the first-year students are part of a comprehensive introductory program led by faculty and staff, incorporating a lecture series, information meetings, alumni panels, and advising. The entire first-year class takes two courses that involve small discussion groups of approximately 20 students. In the courses, students meet with faculty and teaching assistants to address issues of concern in their discipline.

In the Department of Drama, students involvement in theatrical activity is immediate. During the first year students participate in the department's foundation program. Each week drama faculty and students gather for Wednesday Lab, which includes presentations of scenes from class, guest artists, talks with alumni, and other panel discussions.

In the Setnor School of Music, a weekly student convocation brings the entire school community together for performances by their peers, faculty, and many guest artists. In addition to many hours of individual practice, the school encourages the development of skills needed for functioning in group situations. Thus, students are required to be involved in one of the school's large ensemble groups each semester.

School Of Art And Design

Department of Art, 102 Shaffer Art Building, 315-443-4613

Department of Design, The Warehouse, First Floor, 315-443-2455

Department of Foundation, 102 Shaffer Art Building, 315-443-2251

Department of Transmedia, 102 Shaffer Art Building, 315-443-1033

The School of Art and Design

vpa.syr.edu/art-design

As a professional school within a major university, the School of Art and Design offers a wealth of academic resources and endless opportunities and activities. Students are actively involved in mastering their chosen discipline and receive a liberal education that is integral to the development of artists and designers. They have one-on-one interaction with the school's active, professional faculty and numerous visiting artists.

The School of Art and Design has a tradition of excellence that goes back more than 130 years; in fact, Syracuse University was the first university in the country to grant a bachelor of fine arts (B.F.A.) degree. Within its three departments (art, design, and transmedia), the school offers 17 majors that lead to a B.F.A. degree: advertising design, art education, art photography, art video, ceramics, communications design, computer art, fashion design, fiber and textile arts, film, history of art, illustration, interior design, jewelry and metalsmithing, painting, printmaking, and sculpture. It also offers a program leading to a bachelor of industrial design (B.I.D.) degree in industrial and interaction design.

School of Art and Design students are encouraged to explore interdisciplinary study within the school and University as well as pursue opportunities for internships and study abroad experiences. Students may also take advantage of the courses, programs, and events offered through COLAB, an interdisciplinary initiative based in the College of Visual and Performing Arts that encourages students and faculty to use their diverse skills and perspectives to solve complex, real-world problems creatively and collaboratively. The School of Art and Design is committed to ensuring that students receive a comprehensive education in art and design in all of their disciplinary forms. In studio courses where students are involved in representing their own issues and identities, diversity is by nature an integral component of each class. In lecture-based studies courses, the work of underrepresented groups and issues of gender and sexual orientation are incorporated into the curricula. In addition, specific concerns of diversity are addressed in the courses listed below:

AED 522 Art for Special Populations
ART 105 Color and Light
ART 111 20th- to 21st-Century Art in Context
ART 112 Special Topics in History of Art
ART 113 20th- to 21st-Century Design in Context
ART 114 Special Topics in History of Design
ART 201/202 Historic Backgrounds
ART 250 Filmmaking: Cinematic Modes
ART 300 Selected Topics (e.g., Art and Politics)
ART 361/561 Studio Symposium
ART 563/564 Art in America
PTG 300 Decoding Images

Department of Art

Contact Errol Willett, Chair, 102 Shaffer Art Building, 315-443-4613

The School of Art and Design is Department of Art offers an exciting, energetic culture of students who are encouraged to cross conventional boundaries with their work. They are motivated, curious, and committed to artistic growth. The department takes a genuine interest in teaching students what being a professional artist means so that they are prepared for the future. Curricula are designed to allow students to take classes within the larger University, which gives students exposure to the liberal arts as well as courses in business and entrepreneurship. All programs have student organizations that participate in community service projects and the selection of visiting artists, who are a critical component of the department. The department also engages in numerous educational partnerships with Syracuse schools and agencies.

Department of Design

Contact Lucinda Kaukas Havenhand, Chair, The Warehouse, First Floor, 315-443-2455

In the School of Art and Design is Department of Design, faculty and students form an inquisitive and intelligent community that is concerned with the world around it. Many of the departments' professionally oriented programs are top-ranked in the United States and have a long history at Syracuse University. The diverse programs in the department share a commitment to professional excellence and use of socially conscious and sustainable design practices. The department maintains a special relationship with the Syracuse community through the activities of its various student groups--including chapters of professional design organizations--that continually work on projects with not-for-profit agencies as well as funded research design collaborations. All of the departments programs are housed in The Warehouse, SU's newly renovated building in downtown Syracuse that allows students and faculty to benefit from a city atmosphere and interactions with local design firms.

Department of Foundation

Contact Joanna Spitzner, Department of Foundation, 102 Shaffer Art Building, 315-443-2251.

vpa.syr.edu/art-design/design/undergraduate/first-year

The foundation program is taken during the first year and is a prerequisite for all B.F.A. and B.I.D. programs in the departments of art and design. Students in the B.F.A. degree program in fashion design have additional specific foundation requirements and should refer to their program of study for more information. Students in the B.S. degree program in environmental design (interiors) should refer to their specific program of study for first-year requirements.

The foundation curriculum is designed to provide the most rigorous introductory courses necessary for a complete education in art and design. The goal of the required courses is to strengthen conceptual and technical abilities, promote research activity, and provide a cultural and historical context for a broader and more diverse understanding of students' ideas.

In addition to required studio and academic courses, students have the opportunity to choose studio and academic electives. The goal of the studio electives is not to allow students to begin their majors; rather they provide students with a broad, rich experience. Students may also choose to take electives in other areas of the University.

The basic structure of the foundation year includes four required studios: Foundation Drawing, Two-Dimensional Creative Processes, Dimensional Arts, and Time Arts. Students take two of these studios in the fall semester and the remaining two in the spring; there is no sequence in the order of the studios. In the fall semester, all first-year students are enrolled in a zero (0) credit required course, First-Year Colloquium. This course addresses a wide range of contemporary issues and topics in the fields of art and design. The format for the course includes visiting artists and designers' presentations, introductions

to SOAD majors, SOAD faculty/alumni/student lectures, panel discussions, and films. Two art and/or design history courses are also required. All students also take the University writing requirement in the fall semester.

Students take at least one academic or studio elective in the fall semester. They may also choose to take a second academic elective, but not two studio electives in the fall. In the spring semester, students are required to take one academic elective and are strongly encouraged to take a studio elective. If no studio elective is chosen, then a second academic elective will fulfill the spring elective requirements. In addition to the special topics studio electives offered by the Department of Foundation, certain 200-level studio courses with a limited enrollment for first-year students are offered by the Department of Transmedia and the Department of Art. One academic elective course is offered in the Department of Design.

Throughout the year, first-year students come in contact with faculty and students from all programs in the School of Art and Design, with opportunities for conversation and presentations about the different majors so they are prepared to select a major at the end of the year.

Fall Semester

ART 101 First-Year Colloquium 0

WRT 105 Writing Studio I 3

Academic electives/studio elective 3-6

Choose two of the following

FND 111 Time Arts 3

FND 113 Foundation Drawing 3

FND 115 Two-Dimensional Creative Processes 3

FND 117 Dimensional Arts 3

Choose one of the following

ART 111 Twentieth- to 21st-Century Art in Context 3

ART 113 Twentieth- to 21st-Century Design in Context 3

15-18

Spring Semester

Academic elective 3

Academic/studio elective(s) 3-6

Choose one of the following

ART 112 Special Topics in History of Art 3

ART 114 Special Topics in History of Design 3

Choose the remaining two not taken in the fall semester

FND 111 Time Arts 3

FND 113 Foundation Drawing 3

FND 115 Two-Dimensional Creative Processes 3

FND 117 Dimensional Arts 3

15-18

WRT 205, although not a foundation requirement, is a University requirement, and should be taken within the first two years of study. It is offered only in the spring semester.

Department of Transmedia

Contact Heath Hanlin, Chair, 102 Shaffer Art Building, 315-443-1033

Students in the School of Art and Design is Department of Transmedia forge a strong vision and the capacity to act intelligently as an artist. The department is committed to providing a meaningful exploration of media arts with strong, professional artistic practice. Each curriculum in the department is shaped to offer greater flexibility for unique academic experiences, including core courses in transmedia theory and practices. Faculty encourage students to exhibit work on and off campus and arrange for visiting artists to give lectures and critiques. They are also actively involved in the Syracuse community, organizing screenings, film festivals, and exhibitions, which give students additional opportunities for creative exploration and involvement.

General Regulations

DEGREE REQUIREMENTS

A minimum of 126 credits is required to complete all of the four-year B.F.A. degree programs in the School of Art and Design except for fiber and textile arts, which requires 120 credits. The industrial and interaction design program requires a full five years of study and 156 credits. For the B.F.A. programs in the Department of Transmedia, the minimum number of credits required for graduation is 129.

All students matriculated in the Departments of Art and Design's B.F.A. and B.I.D. degree programs must satisfy the requirements of the foundation program. Major programs are usually selected by the end of the first year and require approximately 30 credits in one area of professional work, along with other coursework that may be required for the chosen program. Students in the B.F.A. program in fashion design should refer to their specific program of study for major requirements and other coursework.

All students matriculated in the B.F.A. degree programs in the Department of Transmedia must satisfy the requirements of the transmedia core.

No degrees are granted unless all fees have been paid or satisfactorily adjusted.

ADVANCED PLACEMENT COURSES

The School of Art and Design accepts advanced placement (AP) credit for art/general, art/media and art/drawing for electives only. AP credits may not be used for first-year foundation program studios or transmedia core courses. Syracuse University and the School of Art and Design accept many other academic credits including art history. Please refer to the Academic Rules and Regulations section of this catalog for more information.

Special Services and Programs:

STUDY ABROAD

The College of Visual and Performing Arts, through Syracuse University Abroad, provides an opportunity for students matriculated in the School of Art and Design to take advantage of study programs in Florence, Italy; Prague, Czech Republic; and London, England.

Students majoring in one of the B.F.A. programs or the B.I.D. program may study abroad for a semester, a year, or a summer in Florence, Italy. This

educational experience draws upon the rich resources of Florence's museums, architectural monuments, and cultural offerings. Students may take either a semester- or a year-long program that includes six to nine credits of studio work each semester.

The film program offers both semester-long and short-term study with FAMU in Prague, Czech Republic. Students must obtain departmental approval to participate.

A direct placement program with the London College of Fashion offers students majoring in the B.F.A. programs in fashion design and textile design a professional semester in London during their junior year. In addition to classes they would normally take on the SU campus, students may take courses in such areas as millinery design, shoe design, and electronic machine embroidery. All of the students have internships with English designers and are immersed in the London fashion scene. Contact SU Abroad at 315-443-3471, or online at suabroad.syr.edu.

Students who elect to spend a semester abroad may find that some program adjustments are necessary. Students should consult with their advisor for more information and contact the Office of Student Affairs, 204 Crouse College, 315-443-2517.

SPECIAL STUDIES IN ART

The special studies in art program leads to the B.F.A. degree and is designed expressly for interdisciplinary study. The program is not automatically available; it must be mutually approved by the advisors in the various areas incorporated into the program. All applicants must undergo a personal interview and a portfolio review. In addition, a written proposal for the complete program of study is required, including specific courses and credits. Students are expected to complete the foundation program, and sophomores must have a 3.0 cumulative grade point average and a portfolio of superior caliber to be accepted. The decision to enroll in the special studies program must be made before the student accumulates 60 credits.

For further information and instructions for application, contact the Department of Art, 102 Shaffer Art Building, 315-443-4613.

COURSES FOR NON-ART STUDENTS: Some studio and academic courses are open to non-art majors: FND 102/103, 104,105,106,107,108, PTG 203/204, 503/504, SCU 207,208,507,508.

Department Of Drama

Timothy J. Bond, Producing Artistic Director, Department of Drama and Syracuse Stage

Maria Marrero, Chair

820 East Genesee Street, 315-443-2669

vpa.syr.edu/drama

The Department of Drama offers four professional programs leading to the B.F.A. degree in theater design and technology, drama (acting), musical theater, and stage management. It also offers a B.S. degree in drama. The Department of Drama is committed to ensuring that students receive a strong foundation in the theater in all of its forms. Undergraduates put classroom theory into practice and through productions carry out the University's academic mission of Scholarship in Action.

The unique affiliation between the Drama Department and Syracuse Stage, an outstanding Equity theater company, provides opportunities for our students to gain professional experiences in all areas of study while working toward their undergraduate degrees. These two organizations share space in the same theater complex.

The faculty covers material in appropriate courses that includes plays by playwrights from all backgrounds. The practice of non-traditional casting affords students the opportunity to perform roles not traditionally assigned to them. Design/technical theater studio courses by nature invite and promote exploration of diversity in ideas, themes, and approach to visual presentation of plays; texts for assigned projects are chosen on the basis of ensuring a diverse experience. Academic topics courses (451/452) occasionally embrace themes directly relating to diversity. In addition, the following courses include issues of diversity:

Acting and Scene Study Courses

DRA 105 Introduction to Acting for Nonmajors
DRA 125/126 Introduction to Acting
DRA 220 Introduction to Scene Study
DRA 221/222 Voice/Verse Practicum, I and II
DRA 261/262 Introduction to Musical Theater Practice, I and II
DRA 305 Advanced Acting for Theater Minors
DRA 320 Advanced Acting: Modern Drama
DRA 321/322 Advanced Voice Verse Practicum, I and II
DRA 352 Survey of Theater History
DRA 420 Advanced Acting: Poetic Drama
DRA 520 Graduate Scene Study
DRA 523 Professional Audition Theory and Practice
DRA 529 Advanced Actors Workshop

Design Courses

DRD 311/312 Scene Design
DRD 321/322 Costume Design and History

Academic Courses

DRA 115/116 Introduction to the Theater
DRA 260 Musical Theater Practicum
DRA 328 Stage Makeup
DRA 355/356 Development of the Theater and Drama, I and II
DRA 451/452 Topics in Theatrical and Dramatic History
DRA 453 History of Musical Theater

DRA 480 London Studios (London Program)
DRA 515 Play Analysis and Introduction to Mise-en-Scène
DRA 531 Introduction to Directing
DRA 554 Emergence of Modern Theater
DRA 581 Introduction to Playwriting

DEGREE REQUIREMENTS

The B.F.A. degree is the dominant degree in the drama department. Along with additional drama requirements, students have the option of selecting support courses from the University's other professional schools, including art and music.

The B.F.A. degree programs require 124-130 credits, 94-100 of which must be in drama and related support courses selected by the student and advisor to achieve specific professional goals. The remaining 30 credits are devoted to academic courses outside of the department.

The B.S. degree is structured much like the traditional arts and sciences degree and enables students to incorporate the intensive training of the drama program with a broad education in the liberal arts. Students interested in the B.S. degree may choose a concentration in acting or in theater design and technology.

The B.S. degree requires 120 credits, including a minimum of 50 credits in the liberal arts, and a cumulative grade point average of 2.0 (C).

In addition to regular distribution requirements, students must select an 18-credit minor or academic specialization in one area of the liberal arts. They may take additional credits if they wish to satisfy their own interests.

For acting students, during most of the first two years there is no difference between the requirements for the B.S. and B.F.A. degrees in drama. Students interested in musical theater, stage management, and theater design and technology begin their specialized programs in their first semester. Continuation to a B.F.A. program in acting or musical theater is based on faculty evaluation of the student's classwork and personal commitment at the end of the second year of study. However, this is not the only evaluation. All students in the department are evaluated periodically to see whether their commitment and development warrant continuation in the program they have selected. The decision of which degree to choose is usually made in consultation with the advisor at the end of the second year.

SYRACUSE STAGE

Syracuse Stage is a professional (LORT Equity) theater company. Together with the Department of Drama, it forms part of an unusual University-professional theater affiliation. The close relationship between a major professional theater serving the city and a vigorous University program for training young professionals is fostered by their common home in one complex.

Drama students earn credits by assisting professional directors, designers, and technicians and by appearing in productions at Syracuse Stage; in turn, the staff of the professional theater is involved in all the productions of the drama department, supervising and assisting student designers and technicians with their work. Some student actors are cast in professional productions, and all students profit from the experience, advice, and example of professional actors, designers, directors, and resident staff working in the same building. A number of specialized drama department classes are taught by members of Syracuse Stage who are part-time adjuncts to the faculty.

COURSES FOR NON-DRAMA STUDENTS

Non-drama students are welcome in DRA 105, 355, 356, 305, 405, and 491, as well as in ART 250 and 253 (offered by the School of Art and Design).

STUDY ABROAD

The College of Visual and Performing Arts, through Syracuse University Abroad, provides students in the Department of Drama with the opportunity to draw upon the unparalleled theater resources of London, England, or design resources in Florence, Italy, through study abroad. The drama program in London is offered each semester; students may participate for one semester or for an academic year. Coursework is designed to take advantage of the quantity and quality of London theater. A unique weekly acting workshop at the prestigious Globe Theatre provides training in special skills such as stage movement and voice training. Students may also take courses in the arts and sciences, communications, environmental arts, or management. A direct placement program with the London College of Fashion offers students majoring in costume design an opportunity to study costume design and technology during their junior year. Design students may choose to study in Florence, Italy, where rich cultural resources in art, theater, and opera provide an unforgettable educational experience.

For further information, contact the Office of Student Services, 204 Crouse College, or SU Abroad, 106 Walnut Place (suabroad.syr.edu).

THE TEPPER EXPERIENCE: A NEW YORK CITY DRAMA EXPERIENCE

The Tepper Experience is a unique program from Syracuse University's Department of Drama that offers undergraduate students in advanced levels of acting, musical theater, design, and stage management the opportunity to immerse themselves in a rigorous artistic training program in the culturally rich setting of New York City.

Students in the Tepper Experience work closely with an accomplished faculty of professional, working artists who nurture the students' creative, intellectual, and personal growth. The faculty also helps students gain an understanding of the business skills essential for a rewarding and successful career in the industry.

Residency in New York City is an integral part of the Tepper Experience. Students live and study in the heart of New York's theater district during a semester of their senior year, with studio classes a mere 10-minute walk from their accommodations at the New Yorker Hotel. Their artistic training is fueled by the cultural and educational resources of the city. In addition to being exposed to a broad range of theater, they can experience museums, libraries, and various entertainment venues.

SYRACUSE UNIVERSITY DRAMA ORGANIZATION

The Syracuse University Drama Organization (SUDO) is the national chartered alumni club for SU drama alumni and friends in the entertainment industry. Based in New York City, SUDO's primary goals are to be a source of networking for drama alumni and to provide new and future alumni with mentoring assistance. To meet its goals, SUDO hosts many social, cultural, and fund-raising functions such as an annual reunion party, an Academy Awards party, a biannual cabaret, and a new play reading series. SUDO also publishes a regular newsletter available to members.

The Department of Drama has a unique affiliation with Syracuse Stage, an Equity theater company, and has specialized facilities, including three theater

spaces and a cabaret space, enabling students to participate in every dramatic activity, from stage management stagecraft and design to acting and directing. Students learn from faculty members who themselves are practicing professionals in every aspect of theater. The department provides students with the opportunity to draw upon the unparalleled theater and art resources of London, England, or Florence, Italy, through study abroad. It also offers a unique drama experience through the Tepper Experience, a rigorous artistic training program in the culturally rich setting of New York City. Many of the alumni who have gone on to become highly respected writers, actors, directors, producers and designers return to campus occasionally to lecture, advise, and participate in informal discussions. Visiting artists working at Syracuse Stage or other professional venues in the area often conduct workshops or discussions with Drama students.

Communication And Rhetorical Studies

Contact Amos Kiewe, Chair, 100 Sims Hall, 315-443-2308
vpa.syr.edu/crs

Communication and Rhetorical Studies constitute the fiber with which we weave a framework of interaction among and between people, groups, and society. It is a highly complex process requiring observation, examination, and dynamic personal involvement. A comprehensive education based on a mastery of all the aspects involved in communication and rhetorical studies guarantees the student life-long benefits academically, personally, and professionally.

The Department of Communication and Rhetorical Studies at Syracuse University prepares students to become adept thinkers, competent decision makers, and versatile professionals. Individuals skilled in the theory and practice of communication and rhetorical studies have almost unlimited career opportunities. They are found in every business and profession. The majority of communication and rhetorical studies majors pursue careers in internally oriented corporate and organizational communication and/or externally oriented corporate and public information. In recent years, virtually every graduate of the Department of Communication and Rhetorical Studies has received and accepted a challenging job offer, continued on to a professional school, or pursued a graduate degree in communication and rhetorical studies.

The world is increasingly more dependent on a complex system of communication. Individuals equipped with finely tuned skills in the area of communication are highly sought by potential employers and highly valued by society as a whole. The Department of Communication and Rhetorical Studies offers students the opportunity to make the most of their potential by making the most of the program.

The Department of Communication and Rhetorical Studies is devoted to the study of human symbolic activity, chiefly as it is constituted through spoken language. Communication and rhetorical studies is envisioned as a fundamental human process through which individuals learn to adapt to and create linkages with their social, psychological, and physical environments; develop higher mental processes; and regulate their own behavior as well as that of others. Education in communication and rhetorical studies at Syracuse University focuses on the development of communication competence; students learn how communication is used in constructing social contexts and in articulating decisions to achieve specific outcomes.

Aware that message-related behaviors vary as participants, settings, and conditions change, departmental faculty use a variety of methods and theories to investigate and explain the richness in human communicative behavior. Appropriately, the Department of Communication and Rhetorical Studies embraces and embodies a pluralistic view in its approach to instruction in communication and rhetorical studies.

The Department of Communication and Rhetorical Studies embraces diversity as a core component in its curricular offerings. People always communicate within particular contexts, creating unique and complex relationships between speakers, messages, audiences, and occasions. Responding to this, the department has ensured that most courses address the concept of diversity and develop students' cultural awareness and ability to adapt and respond to the demands of the communication situations they encounter and create.

Students pursue a B.S. degree in communication and rhetorical studies by taking 36 credits in communication and rhetorical studies, 54 credits in arts and sciences, and 30 credits in University-wide electives. In this program, students integrate studies in communication and rhetorical studies with courses from other professional schools and the College of Arts and Sciences.

Special Services and Programs

HONORS IN COMMUNICATION AND RHETORICAL STUDIES

Outstanding students are encouraged to pursue honors in communication and rhetorical studies. Exceptional students may undertake a project of their own choosing under the direction of a faculty member. Project reports are presented at the end of the semester.

For further information about the Honors Program, contact the Office of Student Affairs, 204 Crouse College, or the Honors Program, 306 Bowne Hall.

STUDY ABROAD

The College of Visual and Performing Arts, through the Syracuse University Abroad (SU Abroad), provides communication and rhetorical studies majors with the opportunity to study in London or Madrid. Students may participate for a semester or a year.

Normally, communication and rhetorical studies courses are offered only in the spring semester.

Students may choose from courses in communication and rhetorical studies and complete their course loads by selecting from a wide range of courses in arts and sciences, management, public communications, and human services.

For further information, contact the Office of Student Affairs, 204 Crouse College, or SU Abroad, 106 Walnut Place (suabroad.syr.edu).

Setnor School Of Music

215 Crouse College, 315-443-5892

<http://vpa.syr.edu/music>

In collaboration with the SU Strasbourg Center, and the Conservatoire Nationale de Strasbourg, the school offers an opportunity for a semester abroad for music majors.

Students enrolled in the Bandier Program are encouraged to spend a semester in London, England, a place considered the center of the music industry world. Opportunities for supervised internships while abroad are available and encouraged.

The Rose, Jules R., and Stanford S. Setnor School of Music is committed to offering opportunities for the highest level of professional musical development within the context of a broad, humanistic education that seeks to engender an integrative balance in the work of its students. The school seeks also to

encourage the broadest possible range of creative options for its students, recognizing that the western classical tradition continues to grow and expand, and that it is only one in a world of myriad others.

The school recognizes all musical disciplines as essential to the health of the profession and to the continued evolution of culture, and so strives for the highest standards of achievement for students in all degree programs.

The school affirms its role and responsibilities as a citizen of its community, and of the larger culture, and so is committed to serving the community through outreach and education, and to creating an inclusive environment in which all can develop their gifts.

The Setnor School of Music is also committed to ensuring that students receive a full grounding in music in all of its forms. In the music history sequence, contributions by women and minority composers are treated as part of the overall cultural context of each period studied. In addition, special studies courses specifically address a range of non-traditional topics. The following courses address issues of diversity:

MHL 664 History of American Popular Music
MHL/MTL 566 Topics in Literature and Analysis
MUE 616 Psychological and Sociological Aspects of Music
MHL 666 History of Jazz

ADMISSION

An audition in person is required for full acceptance into graduate programs. In cases where a live audition is not feasible, a provisional acceptance may be made on the basis of a recorded audition. Recorded auditions are not considered binding and a provisional admission based on a tape audition must be confirmed by a live audition when the student arrives on campus. Applications for graduate assistantships are due by March 1. After admission, the student must take diagnostic examinations in music theory and music history. For information on how to apply to the Setnor School of Music, including scheduling auditions, please visit vpa.syr.edu/index.cfm/page/graduate-admission-music, or contact the college's Office of Recruitment and Admissions at 315-443-2769.

FACILITIES

The Setnor School of Music is housed in John B. Crouse Memorial College. The ground floor provides practice rooms, studios, and the Music Education Resource Center. More studio and classroom space is located on the upper three floors, as well as the recently upgraded electronic music studio; digital multitrack recording studios specifically geared for recording of concert music and jazz; the Belfer Archive for sound archiving and preservation; and Setnor Auditorium with its 3,823-pipe Holtkamp organ.

SPECIAL OPPORTUNITIES

The Setnor School of Music holds many faculty and student recitals in Setnor Auditorium as well as concerts sponsored by visiting soloists and ensembles. Also featured are concerts by University-sponsored groups such as the Wind Ensemble, Syracuse University Symphony Orchestra, University Singers, and the Oratorio Society, a choral group regularly featured in performances with the Syracuse Symphony Orchestra. Digital recordings of the concerts and some student recitals have been prepared for broadcast on local radio stations by the audio facility of the Setnor School of Music.

Communication And Rhetorical Studies

The Department Of Communication And Rhetorical Studies

The Department of Communication and Rhetorical Studies supports a theory-based program emphasizing leadership by developing communication skills and a sophisticated understanding of communication as a creative process. Communication is recognized as central to the development of all things social: interpersonal relationships, social roles, personal identities, organizational cultures, and the like. Understanding exactly how and why the process works is important to every career. Syracuse's program goes far beyond the common practice of public speaking. Instead, the department emphasizes the full range of communication practices: everyday conversation, group decision making, organizational communication, political communication, speech making, rhetorical criticism, and intercultural communication. Opportunities for study abroad experiences include London, England, and Madrid, Spain.

Drama

The Department Of Drama

The Department of Drama has a unique affiliation with Syracuse Stage, an Equity theater company, and has specialized facilities, including three theater spaces and a cabaret space, enabling students to participate in every dramatic activity, from stage management, stagecraft and design to acting and directing. Students learn from faculty members who themselves are practicing professionals in every aspect of theater. The department provides students with the opportunity to draw upon the unparalleled theater and art resources of London, England, or Florence, Italy, through study abroad. It also offers a unique drama experience through the Tepper Experience, a rigorous artistic training program in the culturally rich setting of New York City. Many of the alumni who have gone on to become highly respected writers, actors, directors, producers and designers return to campus occasionally to lecture, advise, and participate in informal discussions. Visiting artists working at Syracuse Stage or other professional venues in the area often conduct workshops or discussions with Drama students.

School Of Art And Design

The School Of Art And Design

The School of Art and Design is an accredited institutional member of the National Association of Schools of Art and Design, has a long tradition of offering students the opportunity to develop their artistic talents and obtain a broad liberal arts education. Students learn from faculty members who are not only teachers, but also practicing artists and designers, with work in major museums, international exhibitions, and professional commercial venues. The school offers programs of study at the undergraduate level in art, design, and transmedia; it also maintains study programs in Florence, Italy; Prague, Czech Republic; and London, England. In addition, the school works in cooperation with the SU Art Galleries, Syracuse University Library's Special Collections Resource Center; the University's textile and historic costume collections, and COLAB.

Setnor School Of Music

School Of Music

A charter member of the National Association of Schools of Music in 1928, the Setnor School of Music has a long tradition of high-quality education for serious music students. Its programs reflect a concern for academics as well as professional studies. The school offers its students opportunities to prepare for careers as performers, composers, arrangers, scholars, teachers, and professionals in the music industry. Students learn from faculty members who are themselves actively involved in music-making. Students, faculty, and visiting artists perform on campus throughout the year, as do symphonic, chamber, opera, and choral groups.

Academic Offerings

Acting

The department offers a bachelor of fine arts (B.F.A.) degree in acting and a bachelor of science (B.S.) degree in drama; the B.F.A. requires 124 credits, 21 to 24 more credits in acting and related support courses than the B.S. degree. Students who are interested in directing and playwriting may elect to take additional courses in these areas under drama elective requirements

vpa.syr.edu/drama/undergraduate/acting

Advertising Design

Contact Donna Greene, Department of Design, Warehouse, 3rd Floor, 315-247-3033.

Faculty Donna Smith Greene, Toni Toland

vpa.syr.edu/art-design

The Advertising Design Program is being merged with our Communications Design Program. Students interested in pursuing advertising design should apply to Communications Design. Current students in Advertising Design will complete the degree requirements listed below, but no new students will be admitted to this program.

The program in advertising design leads to a B.F.A. degree and requires 126 credits. The program places an emphasis on conceptual problem solving in print, television, and alternative media using verbal as well as visual techniques. A professional orientation is prevalent throughout the program and culminates in the development of finished portfolios.

Students majoring in advertising design pursue studies in a series of courses designed to familiarize them with the skills, processes used in major advertising agencies to develop advertising campaigns, from research through strategy, execution, and presentation.

The curriculum is designed so graduates of the program are well prepared to make early and significant professional contributions to the advertising field.

MAJOR REQUIREMENTS

First Year, Fall Semester
ART 101 First-Year Colloquium 0
Art or design history 3
FND Studio 3
FND Studio 3
WRT 105 Writing Studio 1 3
Elective 3
Elective (optional) 3
15-18

First Year, Spring Semester
Art or design history 3
FND Studio 3
FND Studio 3
Elective 3
Elective 3
Elective (optional) 3
15-18

Sophomore Year, Fall Semester
ART 080 Visual Communication Symposium 0
ADD 241 Advertising Principles 3
CMD 281 Advertising Design Methods 3
English requirement 3
Studio electives 6
Art history 3
18

Sophomore Year, Spring Semester
ART 080 Visual Communication Symposium 0
ADD 242 Strategy in Advertising 3
CMD 282 Design Skills and Processes 3
Studio electives 6
English requirement 3
WRT 205 Writing Studio 2 3
18

Junior Year, Fall Semester
ART 080 Visual Communication Symposium 0
ADD 341 Advertising Campaigns 3

ADD 345 Digital Design 3
Studio elective 3
Academic elective 3
Art history 3
15

Junior Year, Spring Semester
ADD 342 Advertising Problem Solving 3
Art history 3
Studio electives 6
Academic elective 3
Academic/studio elective (optional) 3
15-18

Senior Year, Fall Semester
ADD 441 Campaign Refinement 3
ADD 443 Television Concepts 3
Academic elective 3
Studio electives 6
15

Senior Year, Spring Semester
ADD 440 Advertising Design Research Problems or 3
ADD 444 Television Commercial Production 3
Studio elective 3
Academic electives 6
ADD 442 Final Portfolio 3
15

Foundation 30
Studio concentration 30
Art history 9
Academic electives 15-18
Studio electives 30-33
Academic requirements 9
Total 126

*Juniors who plan to go abroad in the spring semester should take ADD 341, ADD 342, and ADD 345 in the fall semester. Three semesters of ART 080 Visual Communication Symposium are required, for a total of zero credits.

Minor In Animation

MINOR IN ANIMATION

Faculty Contact Heath Hanlin, Associate Professor of Computer Art, 315-443-1033

The VPA minor in animation creates a focus for students interested in animation production. The core requirements of this minor introduce several animation techniques, and culminate with a collaborative production course. The elective courses allow students to investigate studies that are critically related to animation, allowing for both broader and/or specific research.

Admission requirements

Students interested in this minor should meet with the faculty contact. Prospective students must submit a current transcript, a letter of interest not to exceed 1,500 words, and any work in the form of digital media files on CD or DVD that may be related to the minor. There are no absolute requirements in terms of number of works or GPA. Acceptance into the minor will be made solely by the faculty contact for the minor upon review of application materials. Students need to maintain a 3.0 GPA average in the minor curriculum; otherwise they may be expelled from the minor. Limited to 10 students.

Curricular Requirements

To complete the minor in animation, students must complete a total of 21 credits.

Required Courses

CAR 121 Intro to 3D Computer Animation

CAR 221 Intermediate 3D Computer Animation

CAR 321 Advanced 3D Computer Animation

FIL 321 Filmmaking: Animation

Elective Courses

(choose 3 for a total of 9 credits)

ART 250 Filmmaking: Cinematic Modes

CAR 132 Procedural Composition

CAR 530 Special Topics (Animation)

DRA 105 Introduction to Acting for Nonmajors

FIL 225 Problems in Film Perception
FIL 228 Film Scriptwriting
FND 112 Special Topics in Time Arts: Experimental Animation

FND 114 Special Topics in Foundation Drawing (Drawing through the Figure)

FND 114 Special Topics in Foundation Drawing (Narrative Drawing)

ILL 273 Drawing for Illustration
ILL 274 Sequential Illustration (Prereq: ILL 273)
PTG 353 Anatomy
PTG 354 Anatomy (Prereq: PTG 353)

Art Education

Contact: Dr. James H. Rolling Jr, Department of Art, M-17, Skytop, 441 Lambreth Lane, 315-443-2355 or jrolling@syr.edu or Patrice Gavigan pagaviga@syr.edu

School of Education contacts: Carol Radin or Pam Hachey, Academic Advisors, 270 Huntington Hall. 315-443-9319.

College of Visual & Performing Arts contact: Michele Buza, Academic Advisor, 204 Crouse College, 315-443-2517.

The Bachelor of Fine Arts (B.F.A.) degree program in art education emphasizes the studio arts as an exploration of the ideas, materials, and aesthetics through which we shape meanings, negotiate identity and organize society. Students will obtain an expertise in the development of arts-based and design-oriented curricula linked to national and New York State learning standards for the visual arts and promoting multiliteracies, inclusivity, critical inquiry and social responsibility.

In this program, students dually enroll in the College of Visual and Performing Arts and the School of Education. Studio arts courses and interdisciplinary electives are encouraged in combination with educational theory and cultural foundations as students prepare to be professional teachers of art. At a minimum, the B.F.A. degree in art education can be earned with the satisfactory completion of 127 credits.

In the junior year of the program, students have the opportunity to teach art lessons to children ages 5 to 15 in weekly workshops that prepare you for student teaching in local schools in your senior year. The Syracuse University Student Art Education Association, a chapter of the National Art Education Association, is open to both undergraduate and graduate students in art education. This organization is dedicated to offering preservice art teachers, as well as any interested art and preservice education students, opportunities to enrich their pedagogical practice by facilitating social and networking opportunities for professional development, hosting guest speakers, and promoting and practicing outreach and community service through the arts.

After passing the requisite New York State exams (or state-specific certification exam requirements if you plan to teach in another state), you will be eligible for initial certification as an art teacher in grades K-12. Career services are available through the School of Education.

PROGRAM REQUIREMENTS

Foundation 30 credits
Professional education 36 credits
Studio concentration 21 credits
Art history 6 credits
Academic electives 16 credits
Studio electives 15 credits
Academic requirements (WRT 205) 3 credits
Total credits 127

First Year, Fall Semester

ART 101 First-year Colloquium (0 credits)
WRT 105 Writing Studio 1 (3 credits)
FND Studio (6 credits)
Art or design history foundations (3 credits)
Academic electives (3-6 credits)
Total credits 15-18

First Year, Spring Semester

Art or design history (3 credits)
FND studio (3 credits)
FND studio (3 credits)
Academic electives (3-6 credits)
WRT 205 Writing Studio 2 (3 credits)
Total credits 15-18

Sophomore Year, Fall Semester

AED 215 Foundations of Art Education (3 credits)
Studio breadth (3 credits)
Studio depth (3 credits)
Art history (3 credits)
Academic electives (6 credits)
Total credits 15

Sophomore Year, Spring Semester

EDU 204 Learning in Inclusive Classrooms (4 credits)
Studio breadth (6 credits)
Studio depth (3 credits)
Academic elective (3 credits)
Total credits 16

Junior Year, Fall Semester

EDU 304 Study of Teaching (4 credits)
EDU 301 Methods and Practice in Teaching Art (3 credits)
EDU 301 Lab (Saturday workshops) (0 credits)
Studio breadth (3 credits)
Studio depth (3 credits)
Academic elective (3 credits)
Total credits 16

Junior Year, Spring Semester

RED 326 Literacy Across the Curriculum (4 credits)
EDU 302 Methods and Curriculum in Teaching Art (3 credits)
EDU 301 Lab (Saturday workshops) (0 credits)
Studio depth (6 credits)
Academic elective (3 credits)
Total credits 16

Senior Year, Fall Semester

Academic elective (3 credits)
Studio breadth (3 credits)
Studio depth (6 credits)
Art history (3 credits)
Total credits 15

Senior Year, Spring Semester

AED 510 Special Problems in Art Education (3 credits)
EDU 508 Student Teaching (12 credits)
Academic Elective (1 credit)
Total credits 15

One academic elective course must be taken in each of the following areas:

- Mathematics: (MAT 117 or higher) (3 credits)
- Natural Science: (BIO, CHE, AST, EAR, PHY, GEO 155, SCI 104 or 105) (3 credits)
- Humanities (Other than arts related) (3 credits)
- Social Science: (Other than history or psychology) (3 credits)
- Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study. If requirement has already been met, one 3-credit liberal arts elective must be taken in its place.

Required Child Health And Life Safety Seminar Covering The Following Topics:

Identifying/reporting child abuse
Violence prevention
Child abduction prevention
Highway/general safety
Alcohol/drug/tobacco prevention
Fire and arson prevention

Consult with the School of Education, 270 Huntington Hall, regarding other New York State requirements for graduation and certification.

Art Photography

Contact Doug DuBois, Department of Transmedia, 102 Shaffer Art Building, 315-443-1033.

vpa.syr.edu/art-design/transmedia/undergraduate/art-photography

This B.F.A. degree program is designed for art students who wish to use photography as their primary creative medium. The 129-credit program allows students to examine both traditional and contemporary aspects of fine art photography. Coursework provides thorough training in black-and-white, color, digital photography, and lighting. Special emphasis is placed on critique and the study of photographic history, criticism, and contemporary models. Work is encouraged in contemporary media, such as computer imaging, film, and video, as well as studies in art history and printmaking. Students who are interested in advertising and related fields often select electives in communications design.

Excellent facilities include black-and-white and color darkrooms. Digital facilities include: film scanners, archival inkjet printers and computers stations for image editing. Digital SLR's, medium and large format film cameras, and an extensive array of lighting equipment are available for check out. A shooting studio is equipped for all formats of digital and analog photography.

Undergraduate students also benefit from the department's close association with Light Work, a nonprofit organization on campus that sponsors and internationally renowned visiting artist program and exhibitions in the Robert B. Menschel Photography Gallery. In addition, the Department of Transmedia maintains its own gallery space for exhibitions and events, organized by graduate and undergraduate students.

MAJOR REQUIREMENTS

First Year, Fall Semester
TRM 151 Colloquium I 3
TRM 153 Studio Concepts 3
Academic elective 3
Studio elective 3
WRT 105 Writing Studio 1 3
15

First Year, Spring Semester
TRM 152 Colloquium II 3
TRM 154 Interconnected Studio 3
APH 261 Art Photography Introduction 3
Academic elective 3
WRT 205 Writing Studio 2 3
15

Sophomore Year, Fall Semester
TRM 251 Intermediate Transmedia Studio 3
APH 262 Art Photography: Introduction II 3
Academic elective 3
Studies in culture 3
Studio electives 6
18

Sophomore Year, Spring Semester
APH 263 Advanced Digital Imaging 3
Studies in culture 3
Academic electives 6
Studio elective 3
Choose one: 3
APH 563 Nontraditional modes
APH 564 Image/Sequence: The Photo Book
APH 565 Performance Art
APH 566 Photography and Cinema
18

Junior Year, Fall Semester
TRM 351 Advanced Transmedia Studio 3
APH 361 Lighting for Photography 3
Studio elective 3
Academic elective 3
Studies in culture 6
18

Junior Year, Spring Semester
APH 362 Junior Seminar 3
APH 561 Contemporary Art and Photoghraphy or 3
APH 562 Contemporary Critical and Theoretical Texts on Art and Photography 3
Studies in culture 3
Academic elective 3
Studio elective 3
15

Senior Year, Fall Semester
TRM 451 Transmedia Synthesis 3
APH 461 Senior Seminar 3
Academic elective 3
Studio elective 3
Studies in culture 3
15

Senior Year, Spring Semester
APH 462 B.F.A. Exhibition and Portfolio 3
Studio elective 3
Studies in culture 3
Academic electives 6
15

Transmedia core 21
Writing 6
Depth 27
Studio electives 24
Academic electives 30
Studies in culture 21

Art Video

Contact Tom Sherman, Department of Transmedia, 102 Shaffer Art Building, 315-443-1033.

Faculty John Orentlicher, Tom Sherman

vpa.syr.edu/art-design/transmedia/undergraduate/art-video

The art video degree program addresses video as a medium for making contemporary art. This B.F.A. degree major emphasizes conceptual development and video design skills grounded in advanced production and post-production studio work. Within the context of the Department of Transmedia, the video option encourages a multidisciplinary approach to video, providing opportunities for students to interact with fellow students majoring in art photography, computer art, and film. Art video majors are immersed in the history and theory of moving image/sound relationships so that their work is informed and strengthened.

Art video maintains an active visiting artists program and one of the best collections of artists' video in the United States. Students investigate the many ways video technology is used creatively today: as single channel works challenging the conventions of narrative and documentary form; as a visual art form integrating computer-generated images, audio experimentation, and performance art; as a primary source of creative content for the World Wide Web and as a sculptural medium used in site-specific installations. Beginning courses examine technical principles, and assignments introduce students to the video medium's complex nature and potential power. At first, students develop ideas with their instructors, but in the junior and senior years, their work becomes increasingly self-directed. The goal is the emergence of independent, personally motivated work.

The art video program is supported by a multiple-format video facility. Production equipment includes mini-DV camcorders, digital audio field recorders, and necessary peripherals. Post-production suites include digital non-linear editing systems; multi-format, multi-standard dubbing stations; a dedicated, digital, non-linear audio-to-video suite; and access to other University facilities that further complement post-production work.

This major is designed to prepare students for careers in video art (a multidisciplinary field focused on creative video information design).

In addition to becoming independent video artists, art video graduates may become specialists in a growing number of professional sectors, including music video and World Wide Web content provision, and production and post-production for the education, training, publishing, and entertainment industries, as well as in-house video producers for major corporations in the United States and abroad.

MAJOR REQUIREMENTS

First Year, Fall Semester
TRM 151 Colloquium I 3
TRM 153 Studio Concepts 3
Academic elective 3
Studio elective 3
WRT 105 Writing Studio 1 3
15

First Year, Spring Semester
TRM 152 Colloquium II 3
TRM 154 Interconnected Studio 3
VID 211 Video Sketchbook 3
Academic elective 3
WRT 205 Writing Studio 2 3
15

Sophomore Year, Fall Semester
TRM 251 Intermediate Transmedia Studio 3
VID 212 Introduction to Art Video 3
Academic elective 3
Studies in culture 3
Studio elective 3
15

Sophomore Year, Spring Semester
VID 310 Studies in Art Video 3
VID 313 Advanced Post-Production Techniques 3
Studies in culture 3
Academic electives 6

Studio elective 3
18

Junior Year, Fall Semester
TRM 351 Advanced Transmedia Studio 3
VID 311 Intermediate Art Video I 3
Studies in culture 3
Studio elective 3
Academic elective 3
15

Junior Year, Spring Semester
VID 312 Intermediate Art Video II 3
Studies in culture 6
Academic elective 3
Studio electives 6
18

Senior Year, Fall Semester
 TRM 451 Transmedia Synthesis 3
 VID 411 Advanced Art Video 3
 VID 510 Video Art History 3
 Academic elective 3
 Studio elective 3
 Studies in culture 3
 18
 Senior Year, Spring Semester
 VID 412 Art Video Thesis Project 3
 Studio elective 3
 Studies in culture 3
 Academic elective 3
 Academic elective 3
 15
 Transmedia core 21
 Writing 6
 Depth 27
 Studio electives 24
 Academic electives 30
 Studies in culture 21
 Total 129

Arts And Sciences/Art

Contact: Prof. Gary Radke, Art and Music Histories
 Suite 308 Bowne Hall
 315-443-9198

To arrange a required portfolio review: Office of Recruitment, College of Visual and Performing Arts, 202 Crouse College, 315-443-2769.

Coordinator for College of Visual and Performing Arts: Sarah McCoubrey, Chair, Foundation Program, School of Art and Design, 102 Shaffer Art Building, 315-443-4613.

Art faculty: See "Faculty, College of Visual and Performing Arts, School of Art and Design"

The special options degree program in arts and sciences/art is designed for students who wish to include studio arts in conjunction with studies in humanities and/or sciences. The option permits any major in the College of Arts and Sciences to be joined with studio arts work. The degree awarded at the completion of undergraduate study is a B.A. in the arts and sciences major with the supplementary designation "and art." The degree is singly awarded by the College of Arts and Sciences.

REQUIREMENTS

Under no circumstances will students be permitted to enter this special program after they have completed the first semester of their sophomore year. A portfolio is required for admission into the program.

Arts and Sciences Requirements

At least 90 credits must be completed in the College of Arts and Sciences (including the arts and sciences core, usually 60 credits). Students also complete an arts and sciences major (usually 30 credits) and 6 credits of upper-division art history.

School of Art and Design Requirements

The 30-credit option involves 15 credits of introductory design, drawing, and painting, followed by 15 elective credits in painting, drawing, fiber arts, ceramics, and/or sculpture.

Basic design	FND 115	FND 117	
Drawing (from FND 113, FND 114)			6
Painting (from PTG 203 PTG 204)			3
Studio arts electives			15

All FND (Foundation) course requirements (12 credits) must be completed within the first 3 semesters of enrollment in the program. Moreover, students must complete at least 9 credits of their 12-credit FND requirements BEFORE they will be allowed to enroll in upper-level courses.

There is no provision for advanced work in non-studio areas of the School of Art and Design, leading to degrees such as the B.F.A. or B.L.D.

Ceramics BFA

Our bachelor of fine arts (B.F.A.) degree program in ceramics helps you become a professional ceramist. We encourage you to explore several directions: pottery, sculpture, tile mosaics, and other areas as you focus on the specialty that interests you most.
vpa.syr.edu/art-design/art/undergraduate/ceramics

Communication & Rhetorical Studies - Minor

MINOR IN COMMUNICATION AND RHETORICAL STUDIES

The minor in communication and rhetorical studies serves as an excellent complement to almost any major. Students have the opportunity to enhance their communication skills as well as develop a sophisticated understanding of communication processes in a variety of social and professional contexts. To complete the minor, students take one of two introductory survey courses, one of five 200-level theory/skills/application courses, and four elective offerings at the 300-500 level.

Admission Requirements

- 3.0 GPA (based on completion of 30 credits)
- Must enter program no later than second semester of sophomore year
- Limited to 30 students
- Applications accepted at any time, but will adhere to an October 15 deadline for processing and approval in the fall semester (March 1 for spring semester)
- To enroll in the communication and rhetorical studies minor, students must complete a petition form available from the department secretary) and submit it to the department chair for approval.

Curricular requirements

18 credits, including the following:

Two required courses (6 credits):

One 100-level course:

CRS 181 Concepts and Perspectives in Communication Studies or

CRS 183 Concepts and Perspectives in Rhetorical Studies

One from the following:

CRS 225 Public Advocacy

CRS 331 Interpersonal Communication

CRS 333 Small Group Communication

CRS 334 Argumentation

Four elective courses (12 credits):

- Must be 300-level or above (but may not include experience credit courses)

- Must be taken from the following list of courses:

CRS 313 Nonverbal Communication

CRS 335 Leadership/Stewardship Communication

CRS 338 Communication in Organizations

CRS 355 Political Communication

CRS 425 Advanced Public Speaking

CRS 426 Persuasion

CRS 430 Intercultural Communication

CRS 435 Interviewing

CRS 455 Rhetorical Criticism

CRS 456 Empirical Methods of Speech Communication Research

CRS 458 Applied Communication Research

CRS 514 Language and Meaning

CRS 531 Interpersonal Communication: Theories and Research

CRS 532 Family Communication

CRS 535 Communication and Community

CRS 538 Advances in Organizational Speech Communication

CRS 545 Issues in Argumentation

CRS 546 Seminar Legal Communication

CRS 552 History of Rhetorical Theory

CRS 567 Rhetoric and Philosophy

CRS 568 Rhetoric of Social Change

Minor In Leadership/Stewardship Communication

MINOR IN LEADERSHIP/STEWARDSHIP COMMUNICATION

Leadership skills are inherently tied to one's ability to communicate effectively in a variety of situations, including formal presentations, meetings, the media, and informal conversations. Competent use of one's skills is predicated on a sophisticated understanding of culture, context, process, audience, and principles of rhetoric. The minor in Leadership/Stewardship Communication is designed to enhance the student's understanding of the relationship between communication and leadership and to develop appropriate skills for enhancing leadership. The minor complements many of the University's professional and liberal arts programs, especially those that prepare students for leadership roles in specific professions (law, politics, management, media, community

services, and so on).

Admission Requirements

- 3.0 GPA (based on completion of 30 credits)
- Must enter program no later than first semester of junior year
- Complete petition and submit to department chair for approval
- Petitions accepted at any time, but normally reviewed and approved after October 15 (fall semester) and March 1 (spring semester) deadlines for applications.

Curricular Requirements

Students must complete the following six courses for a total of 18 credits:

CRS 225 Public Advocacy, or

CRS 325 Presentational Speaking

CRS 333 Small Group Communication

CRS 335 Leadership/Stewardship Communication

and any three of the following:

CRS 334 Introduction to Argumentation

CRS 355 Political Communication

CRS 426 Persuasion

CRS 430 Intercultural Communication

CRS 466 Ethics in Human Communication

CRS 568 Rhetoric of Social Change

PSC 336 Political Leadership

PAF 420 Interpersonal Conflict Resolution Skills

PAF 422 Negotiation: Theory and Practice

PAF 423 Leadership: Theory and Practice

Communication And Rhetorical Studies

Faculty Richard W. Buttny, Anne Demo, Craig A. Duczak, Cynthia Gordon, Diane Grimes, Arthur D. Jensen, Kenneth M. Johnson, Amos Kiewe, Kendall Phillips, Amardo Rodriguez, Bradford Vivian

This program allows students to integrate their individual professional interests with a thorough background in communication and rhetorical studies and a selection of arts and sciences courses. The 120 credits required for the B.S. degree are divided into 36 credits in communication and rhetorical studies, 54 credits in arts and sciences, and 30 credits in University-wide electives.

MAJOR REQUIREMENTS

Students must complete a total of 120 credits. Of these, 36 credits must be in communication and rhetorical studies, including CRS 181,183, 225,284, and 287. Students must also take 54 credits in arts and sciences, including 6 credits in writing (English); 6 credits in the natural sciences and mathematics; 6 credits in the social sciences; 6 credits in the humanities, including foreign language proficiency at a 200 level (American Sign Language does not fulfill this requirement, although it can be taken as an Arts and Sciences elective); and 30 credits in areas supporting their studies in communication.

As of the academic year 2005-06, all communication and rhetorical studies majors who also pursue a second major, an additional minor, or attend one of the SU Abroad centers for a semester, are allowed to enroll in up to 57 credits in non-arts-and-sciences courses. This modification means that communication and rhetorical studies majors who fall under one or more of the above categories (double major, minor, or SU Abroad) are no longer required to pursue 54 credits in arts and sciences courses but are given greater flexibility in taking more non-arts-and-sciences courses. Please note that the current requirements, including WRT 105, WRT 205, two humanities courses, two science courses, two social science courses, and a language proficiency at the 200 level (for a total of 27 credits), remain intact.

Communications Design

Contact Robert Cooney, Department of Design, Warehouse, 3rd Floor, 315-443-4071.

Faculty Robert Cooney, Kenneth Hine, Roderick Martinez, William Padgett

vpa.syr.edu/art-design/design/undergraduate/communications-design

This B.F.A. degree program introduces a field offering almost unlimited options and professional opportunities. Its unique structure enables students to pursue either a broad range of interests or to specialize in one or two particular areas of communications design. Corporate graphics and identity systems, advertising, packaging, environmental graphics, exhibition design, direct mail and direct response marketing, magazine or book design, television and film graphics, and electronic and interactive media are some of the most common areas of study. The program is designed to accommodate almost any relevant interest.

The courses emphasize, above all else, the conceptual and strategic aspects of marketing and communications design as well as the development of basic skills, the use of technology, and the historical and theoretical foundations of the field.

All Communications Design majors must maintain 2.0 GPA or above in CMD to remain current and enrolled in the major. If a student receives a grade

below a C in any of the CMD classes, he/she will be placed on CMD probation for the following semester. Any student placed on CMD probation for a total of two semesters, consecutive or nonconsecutive, will be dropped from the CMD major. An appeal to be reinstated to the major can only be made by submitting a current portfolio, a current transcript and a letter of recommendation from a faculty member outside the CMD program. This package would be sent to the Program Coordinator of Communications Design by October 1 in the Fall semester for Spring reentry and March 1 in the Spring semester for Fall reentry. The appeal for reinstatement case will be reviewed by a committee made up of all the full-time CMD faculty and one student representative from the senior class. There must be a unanimous positive vote of the committee members to reinstate the student.

MAJOR REQUIREMENTS

First Year, Fall Semester
ART 101 First-Year Colloquium 0
Art or design history 3
FND Studio 3
FND Studio 3
WRT 105 Writing Studio I 3
Elective 3
Elective (optional) 3
15-18

First Year, Spring Semester
Art or design history 3
FND Studio 3
FND Studio 3
Elective 3
Elective 3
Elective (optional) 3
15-18

Sophomore Year, Fall Semester
ART 080* Visual Communication Symposium 0
CMD 251 Introductory Communications Design I 3
CMD 281 Design Methods 3
Academic elective 3
Studio electives 6
Art history 3
18

Sophomore Year, Spring Semester
ART 080* Visual Communication Symposium 0
CMD 252 Introductory Communications Design II 3
CMD 282 Design Skills and Processes 3
Studio electives 6
Art history 3
WRT 205 Writing Studio 2 3
18

Junior Year, Fall Semester
ART 080* Visual Communication Symposium 0
CMD 351 Problem-Solving Strategies 3

CMD 450 Communications Design Problems 3
Studio elective 3
Academic elective 3
Art history 3
15

Junior Year, Spring Semester
CMD 352 Design Project Management 3
CMD 450 Communications Design Problems 3
Studio elective 3
Academic electives 9
18

Senior Year, Fall Semester
CMD 450 Communications Design Problems 6
Studio electives 6
Academic elective 3
15

Senior Year, Spring Semester
CMD 450 Communications Design Problems 6
CMD 452 Portfolio and Practice 3
Academic elective 6
15

Foundation 30
Studio concentration 39
Art history 9
Academic electives 21
Studio electives 24
Academic requirement 3
126

* Three semesters of ART 080, Visual Communication Symposium, are required, for a total of zero credits.

Computer Art

Contact Heath Hanlin, Department of Transmedia, 102 Shaffer Art Building, 315-443-1033.

Faculty Heath Hanlin

vpa.syr.edu/art-design/transmedia/undergraduate/computer-art

The Computer Art B.F.A. degree program at Syracuse University is dedicated to exploring the possibilities of digital media in a fine-art, experimental context. Through instruction in 3D computer animation, gaming, and interactive media, our students are encouraged to develop their vision and technical skills.

In the last 20 years, digital art has seen an unprecedented level of development, change, and growth, both in opportunities for artists working in an experimental context and for those working in industry. Digital art has moved from being a medium where every work produced was experimental due to the novelty of the medium, to a set of media that permeates our culture and the lives of almost everyone within it. In film, television, and interactive media, the computer has become an indispensable tool in the production process. Since the early 1980s, the computer art program at Syracuse University has watched these changes unfold.

Digital art has not simply replaced other media or tools, but has established a new set of media—media that could not be created using any other methods, either technical or conceptual. In 3D computer animation, gaming, and interactive media, the computer art program at Syracuse University encourages students to push the boundaries of these media in ways that are free of the paradigmatic constraints of traditional media.

MAJOR REQUIREMENTS

First Year, Fall Semester

TRM 151 Transmedia Colloquium I 3
TRM 153 Studio Concepts 3
Academic elective 3
Studio elective 3
WRT 105 Writing Studio 1 3
15

First Year, Spring Semester

TRM 152 Transmedia Colloquium II 3
TRM 154 Interconnected Studio 3
CAR 132 Procedural Composition 3
Academic elective 3
WRT 205 Writing Studio 2 3
15

Sophomore Year, Fall Semester

CAR 121 Intro to 3D Computer Graphics 3
TRM Intermediate Transmedia Studio or 3
251** Academic elective

Studies in culture 3
Academic elective(s) 6
Studio elective 3
18

Sophomore Year, Spring Semester

CAR 221 Intermediate 3D Computer Animation

CAR 233 Intermediate Multimedia

CAR 240* Multimedia Programming

Academic elective or Studies in Culture

TRM Intermediate Transmedia Studio or Academic 251** elective
15

Junior Year, Fall Semester

CAR 321 Advanced 3D Computer Animation 3
CAR 340* Computer Gaming 3
Studies in culture 3
Academic elective 3
Studio elective 3
TRM Advanced Transmedia Studio or Studies 3
351** in Culture
18

Junior Year, Spring Semester

CAR 430 Computer Art Seminar 3
CAR 530 Special Topics 3
TRM Advanced Transmedia Studio or 3
351** Studies in Culture

Studies in culture 3
Academic elective 3
Studio elective or Studies in Culture 3
18
Senior Year, Fall Semester
CAR 430
CAR 530
TRM 451
Computer Graphics Seminar or
Special Topics 3
Transmedia Synthesis 3
Academic elective 3
Studio elective 3
Academic elective or Studies in 3
Culture

15

Senior Year, Spring Semester
CAR 432
Senior Project 3
Academic electives 3
Studio elective 3
Studies in Culture 3
Studio elective or Studies in 3
Culture
15

Transmedia core 21
Writing 6
Depth 27
Studio electives 24
Academic electives 30
Studies in culture 21
Total 129

*Must be CAR elective, and counts as studio elective.

** 3 hours each of TRM 251 and TRM 351 are required, with sections available in the fall and spring semesters.

Minor In Computer Gaming

MINOR IN COMPUTER GAMING

Department of Transmedia, 315-443-1033

The VPA minor in computer gaming creates a focus for students interested in the practical, social, and theoretical aspects of computer/video games. The core requirements of this minor introduce the primary methods and concepts that are key to the production of computer/video games. The elective courses direct students to investigate a range of studies that are critically related to gaming, allowing for both broader and/or specific research.

Admission requirements

Students interested in this minor should meet with the faculty contact. Prospective students must submit a current transcript, a letter of interest not to exceed 1,500 words, and any work in the form of digital media files on CD or DVD that may be related to the minor. There are no absolute requirements in terms of number of works or GPA. Acceptance into the minor will be made solely by the faculty contact for the minor upon review of application materials. Students need to maintain a 3.0 GPA average in the minor curriculum; otherwise they may be expelled from the minor. Limited to 10 students.

Curricular Requirements

To complete the minor in computer gaming, students must complete a total of 21 credits.

Required Courses (12 credits)

CAR 121 Intro to 3D Computer Animation

CAR 233 2D Computer Gaming

CAR 221 Intermediate 3D Computer Animation

CAR 340 Computer Gaming

Elective Courses (choose 3 for a total of 9 credits):

Theory

IND 378 Symbology and Semiotics or

CAR 530 History and Theory for Computer Gaming or

FIL 225 Problems of Film Perception

Interaction

IND 276 Visualization and Representation or

IND 375 Human Factors for Designers

Programming

CPS 196 Introduction to Programming: C or

CAR 132 Procedural Composition

Science

PHY 101 Major Concepts of Physics I or

MAT 194 Pre-calculus

Writing

ETS 153 Interpretation of Fiction or

CRS 339 Communication, Space, and Design or

FIL 228 Film Scriptwriting

Art

FND 114 Special Topics in Foundation Drawing: Drawing Through the Figure

Drama

Contact Department of Drama, 820 East Genesee Street, 315-443-2669.

Faculty Joseph Alberti, Gerardine M. Clark, James Clark, Timothy Davis-Reed, Rodney S. Hudson, Elizabeth Ingram, Malcolm Ingram, Felix Ivanoff, Marie Kemp, Victor Lazarow, Craig MacDonald, Anthony Salatino, David Wanstreet

The degree program in drama has an emphasis in acting, and leads to either a B.F.A. degree or a B.S. degree. Students who are interested in directing and playwriting may elect to take additional courses in these areas under drama support requirements. Students are immersed in the program starting immediately in the first year, devoting as many as 18 hours of class time per week to various theater arts. All students are required to take coursework in writing.

Although first-year students are not permitted to perform on stage for the public, they work on productions behind the scenes in a wide variety of jobs, ranging from running crews to assistant stage managing. From the second year on, students may audition for roles in faculty-directed productions and scenes and plays directed by students; films produced by undergraduate and graduate film students; and productions outside the department. Advanced acting students may audition for and be cast in Syracuse Stage productions in appropriate roles or as understudies where union rules permit the use of non-Equity actors. Equity points may be earned through work with Syracuse Stage. As many as 20 to 30 productions may be produced in the theater complex in one year.

Studies are broadened through courses in theater history, voice/verse, movement, directing, playwriting, and technical theater. Students are encouraged to become proficient in more than one area of theater and may take courses in theater management and stagecrafts, some of which are taught by Syracuse Stage professionals.

The B.F.A. in drama (acting) degree program requires 124 credits, while the B.S. degree requires 120.

B.F.A. DEGREE REQUIREMENTS

(Acting)

First Year, Fall Semester

DRA 090	Theater Laboratory	0
DRA 115	Introduction to the Theater	3
DRA 125	Introduction to Acting	3
DRD 115	Introduction to Theater Production	2
WRT 105	Writing Studio 1	3
	Academic electives	6
		17

First Year, Spring Semester

DRA 090	Theater Laboratory	0
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DRA 116	Introduction to the Theater II	3
DRA 126	Introduction to Acting II	6
DRD 116	Introduction to Theater Production II	2
WRT 205	Writing Studio 2	3
	Academic elective	3
		17

*Courses with an asterisk are listed for DRA emphasis but could be substituted with DRD classes for Theater Design and Technology emphasis.

It is recommended that the student finds an official minor from a school or college within the University that complements his or her course of study or, in consultation with his or her advisor, selects an academic specialization that is of interest and will enhance the student's education.

Fashion Design

Contact Jeffrey Mayer, Department of Design, The Warehouse, 7th Floor, 315-443-4644.

Faculty Karen M. Bakke, Todd Conover, Jeffrey Mayer

vpa.syr.edu/art-design/design/undergraduate/fashion-design

The curriculum of the B.F.A. degree program in fashion design includes the basic skills of construction, flat pattern, draping, and presentation, all with an emphasis on design. Important related topics include textiles, fashion drawing, fashion marketing, and computer-assisted design. Students learn to develop their ideas on paper, then translate them through pattern skills into three-dimensional forms and, finally, into finished designs. Academic requirements and electives balance studio and didactic courses each semester. The program requires 126 credits.

The fashion design program has connections with the London College of Fashion. Students may apply to spend a semester abroad in this program.

MAJOR REQUIREMENTS

First Year, Fall Semester

ART 101 First-Year Colloquium 0
 Art or design history 3
 FND 111 Time Arts 3
 FND 113 Foundation Drawing 3
 WRT 105 Writing Studio 1 3
 FAS 120 Fashion Design: Concepts and Construction I 3
 Elective (optional) 3
 15-18

First Year, Spring Semester

Art or design history 3
 FND 115 2D Creative Processes 3
 FND 117 Dimensional Arts 3
 FAS 121 Fashion Design: Concepts and Construction II 3
 FAS 147 Visual Thinking 3
 WRT 205 Writing Studio 2 3
 18

Sophomore Year, Fall Semester

FAS 222 Fashion Design: Flat Pattern 3
 FAS 231 Fashion Drawing I 3
 Special Topics 3
 Academic elective 3
 Studio elective 3
 15

Sophomore Year, Spring Semester

FAS 223 Fashion Design: Advanced Flat Pattern 3
 FAS 232 Fashion Drawing II 3
 FAS 300 Selected Topics 3
 ETS 145 Reading Popular Culture 3
 Studio elective 3
 15

Junior Year, Fall Semester

FAS 323 Fashion Design: Accessory Design 3
 FAS 332 Fashion Design: Draping 3

FAS 335 History of Fashion Design I: Origins and Revivals 3

Studio elective 3
 Academic elective 3
 15

Junior Year, Spring Semester

FIB 227 Experimental Textiles and Materials 3

FAS 341 Fashion Computer Aided Pattern Design 3
FAS 333 Fashion Design: Advanced Draping 3
FAS 336 History of Fashion Design II: Contemporary Trends 3
Studio elective 3
Academic elective 3
18

Senior Year, Fall Semester
FAS 422 Fashion Design: Senior Collection I 3
FIB 328 Extreme Knitting 3
Studio electives 6
Academic elective 3
15

Senior Year, Spring Semester
FAS 423 Fashion Design: Senior Collection II 3
Studio electives 9
Academic elective 3
15

Foundation 21
Studio concentration 51
Art history 6
Academic electives 15
Studio electives 27
Academic requirements 6
Total 126

Please note that distribution of academic requirements/electives and fashion electives will be determined in consultation with the student's faculty advisor.

Minor In Fashion Design

Students pursuing programs in other studio-based majors may be able to complete a minor in fashion design. The minor in each area is made up of 18 credits as shown below. Minimum GPA required: 2.8.

Contact Karen Bakke, Department of Design, 222 Smith Hall, 315-443-4644.

Required core courses
FAS 155 Introduction to the Visual Arts 3
FAS 120 Fashion Design: Concepts and Construction I 3
FAS 147 Visual Thinking 3
FAS 336 History of Fashion Design II 3
Choose 2 of the following
FAS 121 Fashion Design: Concepts and Construction II 3

FAS 222 Flat Pattern 3
FAS 223 Advanced Flat Pattern 3
FAS 231 Fashion Drawing I 3
FAS 232 Fashion Drawing II 3
FAS 300 Selected Topics 3
FAS 341 Fashion Computer-Aided Pattern Design 3
FAS 323 Fashion Design: Accessory Design 3
FIB 328 Extreme Knitting 3

Please note that minors in fashion design are not available at this time.

Fiber And Textile Design Arts

Contact TBA, Department of Art, ComArt Building, 315-443-1135 or 315-443-3700.

vpa.syr.edu/art-design/art/undergraduate/fiber-textile-arts

Please note that the B.F.A. program in Fiber and Textile Arts is not accepting new applications at this time. Please contact the college's Office of Recruitment and Admissions for more detailed information about your options, 315-443-2769.

Fiber and textile arts offers a multi-faceted program of study allowing students to explore a wide range of possibilities within fibers and textiles. The program emerges from the philosophy that textiles and fibers are an ever-changing medium that connects humans globally as well as over time through fine art and design traditions. The pervasiveness and intimacy of textiles provides a rich backdrop for students pursuing an arts education and an opportunity for a synthesis of interdisciplinary studies across the University. The B.F.A. degree program, which requires 120 credits, operates in a studio environment. Fiber and textile arts students explore the creative, technical, conceptual, and multi-dimensional aspects of fibers and textiles. In addition to traditional and nontraditional textile and fiber practices, students are encouraged to explore the intersections and connections with ideas, materials, techniques and technologies of other media. This cross-disciplinary activity encourages a wide range of exploration and inclusion of atypical concepts and design activities. Fiber and textile arts offers study in processes including dyeing, weaving, digital printing, screen printing, felting, paper making, knitting, computerized knitting and multi-harness weaving, embellishment, sculpture and installation, wearable technology, and wearable artworks. The workshop format of the courses, which includes lectures, demonstrations, and discussions, facilitates close contact and frequent exchange between instructors and students. The program is composed of faculty with a broad range of expertise within the fine arts and design fields.

MAJOR REQUIREMENTS

First Year, Fall Semester
Art or design history 3
FND Studio 3
FND Studio 3
WRT 105 Writing Studio 1 3
Academic elective 3
15
First Year, Spring Semester
Art or design history 3
FND studio 3
FND studio 3
WRT 205 Writing Studio 2 3
Studio elective 3
15

Sophomore Year, Fall Semester
FIB 221 Introduction to Fiber Arts 3
FIB 226 Introduction to Floor Loom 3
Studio elective* 3
Art history 3
Academic elective 3
15

Sophomore Year, Spring Semester
FIB 227 Experimental Textiles and Materials 3
SPD 200 Introduction to Textile Printing 3
Studio elective (Intro to CER, JAM, or SCU)** 6
Art history Academic elective 3

Junior Year, Fall Semester
FIB 324/624 Sculptural Fibers 3
PRT 551 Hand Paper Workshop 3
FIB Computer Printed Textiles and 3
323/623 Materials
Art history 3
Academic elective 3
15

Junior Year, Spring Semester
FIB 326 Intermediate Fibers 3
FIB 328/628 Extreme Knitting 3
FIB 322/622 Intermediate Weaving 3
Academic elective 3
Studio elective 3
15

Senior Year, Fall Semester
FIB 425 Advanced Fibers 3
Academic elective 3
Academic elective 3
Studio elective 3
Studio elective 3
15

Senior Year, Spring Semester
FIB 426 Advanced Fibers 3
FIB 420 Fiber Arts Research Problems 3
Academic elective 3
Studio elective 3
Studio elective 3
15
Total 120

*Highly recommended: SPD 243 Repeats and Techniques

** FIB students are required to take an introductory-level course in one of the other 3-D programs of their choice: CER, MET. or SCU.

Film

Contact Miso Suchy, Department of Transmedia, 315-443-1033.

Faculty Owen Shapiro, Miso Suchy

vpa.syr.edu/art-design/transmedia/undergraduate/film

The main objective and educational mission of our film program is to provide a stimulating and rewarding context for independent filmmaking and scholarship. The film program places equal emphasis on academic film studies and creative production. Students pursue various modes of production, including experimental, narrative, documentary, and animation and are required to take film history, theory and criticism classes.

Our approach is that of the total filmmaker. The primary focus of the program is to foster creative, intellectual, and personal achievement. Students learn

everything from scriptwriting to pre-production, production, and post-production. Learning how to develop interpersonal and leadership skills is an important part of the process. The program encourages independence, debate, and originality. Our approach to film is an aesthetic one rather than a commercial enterprise.

The first two years of the program are rigorously structured. Freshmen follow Transmedia core curriculum, including film history and an introductory film production course. Sophomore classes concentrate on the essential filmmaking skills. Juniors and seniors have more flexibility. Students choose from menu-structured courses according to their academic and professional interests, in essence constructing their own path with their faculty advisor. This structure permits students to study abroad for one semester in any of the SU Abroad locations. The film program also offers both semester-long and short-term study programs with FAMU in Prague.

Students must participate in a portfolio review, which is held at the end of each semester. The student and faculty members evaluate creative and academic work and assess student progress. Sophomore Review will result in a recommendation to continue or to not continue in the program.

In addition to the core study and study abroad options, students have various opportunities for involvement with the Syracuse International Film Festival, the Dropped Frame Society (a student-run film organization), and are encouraged to seek internships. Each year, two of our film seniors participate in the "Sorkin Week," a week-long professional sojourn in Los Angeles, California.

The program maintains full facilities for 16mm, super 16mm, and digital video formats, including HD.

Our students go on to become independent filmmakers and educators, and work in a wide variety of media-related fields. The program requires 129 credits.

MAJOR REQUIREMENTS

First Year, Fall Semester

TRM 151 Colloquium I 3

TRM 153 Studio Concepts 3

Studio elective 3

ART 253 Survey of Film History 3

Academic elective 3

WRT 105 Writing Studio 1 3

18

First Year, Spring Semester

TRM 152 Colloquium II 3

TRM 154 Interconnected Studio 3

FIL 122 Sound/Image 3

Studio elective 3

WRT 205 Writing Studio 2 3

15

Sophomore Year, Fall Semester

TRM 251 Intermediate Studio 3

FIL 221 Cinematic Modes of Production 3

FIL 228 Film Scriptwriting 3

FIL 226 Survey of Film Theory 3

Academic elective 3

Studio elective 3

18

Sophomore Year, Spring Semester

FIL 223 Storytelling Production 3

FIL 225 Problems of Film Perception 3

Academic elective 3

Studio elective 3

Studies in culture 6

18

Junior Year, Fall Semester

TRM 351 Advanced Studio 3

FIL 321 Filmmaking: Animation 3*

FIL 322 Cinematic Modes Workshop 3*

FIL 329 Sound Design 3*

FIL 523 Acting/Directing 3*

Studies in culture 3

Academic elective 3

15

*Choose 2

Junior Year, Spring Semester

FIL 222 Post Production Workshop 3*

FIL 321 Filmmaking: Animation 3*

FIL 322 Cinematic Modes Workshop 3*

FIL 324 Scriptwriting Workshop 3*

Studies in culture 3

Studio elective 3

Academic elective 3

15

*Choose 2

Senior Year, Fall Semester

TRM 451 Transmedia Synthesis 3

FIL 420 Senior Project 0-3*

Studio elective(s) 3-6*

Academic elective 3
Studies in culture 3
15
*Choose 1

Senior Year, Spring Semester
FIL 520 Film Studies Seminar 3
FIL 420 Senior Project 0-3*
Studio elective(s) 3-6*
Academic elective 3
Studies in culture 3
15
*Choose 1

Transmedia core 21
Writing 6
Depth 33
Studio electives 27
Academic electives 21

Studies in culture 21
Total 129

History Of Art

Contact Elizabeth Fowler, Department of Foundation, 102 Shaffer Art Building, 315-443-2251.

Faculty Elizabeth J. Fowler, Judith E. Meighan

vpa.syr.edu/art-design/art/undergraduate/history-art

The interdisciplinary program in the history of art, which leads to a B.F.A. degree and requires 126 credits, integrates studio experience with study of the history, theory, and aesthetics of the visual arts. Intended for students who have taken basic studio courses in drawing, painting, and design but who do not wish to specialize in one of the professional studio fields, it offers a diversified course of study in history and related academic concerns.

The program examines art as an expression of experience in different periods and cultures, from prehistoric to contemporary. Students may develop an area of specialization in a topic that interests them, such as a period (Middle Ages, Age of Romanticism, Industrial Age), a stylistic movement (Baroque, Impressionism, Abstract Impressionism), a medium (decorative arts, architecture), a focus based on geography (American art, art of the northern Renaissance), or a combination of all four.

For study in the history of art, students may choose art history courses above the 299 level offered in the College of Visual and Performing Arts listed with an ART prefix, or courses in the art history major offered by the Department of Fine Arts in the College of Arts and Sciences, which are listed with a FIA prefix. History of art majors may also choose courses from other undergraduate colleges within the University.

MAJOR REQUIREMENTS

First Year, Fall Semester
ART 101 First-Year Colloquium 0
Art or design history 3
FND Studio 3
FND Studio 3
WRT 105 Writing Studio 1 3
Elective 3
Elective (optional) 3
15-18

First Year, Spring Semester
Art or design history 3
FND Studio 3
FND Studio 3
Elective 3
Elective 3
Elective (optional) 3
15-18

Sophomore Year, Fall Semester
Art history electives 6
Studio electives 6
Academic elective 3
15

Sophomore Year, Spring Semester
Art history electives 6
Studio electives 6
Academic elective 3
WRT 205 Writing Studio 2 3
18

Junior Year, Fall Semester
Art History electives 6
Studio electives 6

Academic elective 3

WRT 307 Professional Writing 3
18
Junior Year, Spring Semester
Art history electives 6
Studio electives 6
Academic elective 3
16
Senior Year, Fall Semester
Art history electives 9
Studio elective 3
Academic elective 3
15
Senior Year, Spring Semester
Art history electives 6
Studio electives 3
Academic electives 6
15
Foundation 30
Art history concentration 39
Academic electives 21
Studio electives 30
Academic requirements 6
Total 126

Illustration

Contact Yvonne Buchanan, Department of Art, 102 Shaffer Art Building, 315-443-4613.

Faculty Yvonne Buchanan, Robert Dacey, Roger DeMuth, James Ransome, John Thompson

vpa.syr.edu/art-design/art/undergraduate/illustration

Using visual symbols and imagination, illustrators stimulate curiosity and interest, tell stories, illuminate, and motivate. Therefore, students in the illustration program must be able to draw and to communicate exceptionally well with visual images.

The curriculum, which leads to a B.F.A. degree, is centered on a series of studio courses covering figure drawing, drawing for reproduction, illustration concepts, and the history and development of illustration. At the same time, students embark on individual research projects in specialized areas of illustration. The program balances imagination and individual expression with the continuous development of skills in drawing, painting, digital media, and design as they apply to the communication arts. The program in illustration requires 126 credits.

MAJOR REQUIREMENTS

First Year, Fall Semester
ART 101 First-Year Colloquium 0
Art or design history 3
FND Studio 3
FND Studio 3
WRT 105 Writing Studio 1 3
Elective 3
Elective (optional) 3
15-18

First Year, Spring Semester
Art or design history 3
FND Studio 3
FND Studio 3
Elective 3
Elective 3
Elective (optional) 3
15-18

Sophomore Year, Fall Semester
ILL 261 Introduction to Illustration 3
ILL 283 Media Arts 3
ART 080* Visual Communication Symposium 0
English requirement 3
Studio elective 3
Art history 3
15

Sophomore Year, Spring Semester
ILL 262 Introduction to Illustration 3
ILL 284 Media Arts Techniques 3
ART 080* Visual Communication Symposium 0
Studio electives 6
Academic elective 3
WRT 205 Writing Studio 2 3
18

Junior Year, Fall Semester
ILL 361 Intermediate Illustration 3

ILL 363 Illustration Research Problems 3

Academic electives 6

Studio elective 3

Art history 3

18

Junior Year, Spring Semester

ILL 362 Illustration Principles 3

ILL 562 Illustration Concept 3

ART 080* Visual Communication Symposium 0

Studio elective 3

Academic elective 3

Art history 3

15

Senior Year, Fall Semester

ILL 461 Advanced Illustration 3

ILL 561 Illustration Concept 3

Studio electives 6

Academic elective 3

15

Senior Year, Spring Semester

ILL 462 Advanced Illustration 3

ILL 483 The Business of Freelance Illustration 3

ILL 364 Illustration Research Problems 3

Studio elective 3

Academic elective 3

15

Foundation 30

Studio concentration 39

Art history 9

Academic electives 18

Studio electives 24**

Academic requirements 6

Total 126

* Three semesters of ART 080, Visual Communication Symposium, are required, for a total of zero credits. ** Courses in electronic illustration are offered, and strongly recommended during the junior and senior years.

Industrial And Interaction Design

Contact Donald Carr, Department of Design, The Warehouse, 5th Floor, 315-443-2455.

vpa.syr.edu/art-design/design/undergraduate/industrial-interaction

Industrial designers develop a wide spectrum of design solutions that meet current demands and anticipate the future needs of society. Their designs must incorporate the effective use of materials and technology, allow for manufacturing constraints, and provide a clear advantage to existing solutions.

The five-year program in industrial and interaction design, which leads to the professional degree, bachelor of industrial design (B.I.D.), is noted for combining theory and practice, taking a process-oriented approach, and focusing on social and environmental responsibility. It is accredited by the National Association of Schools of Art and Design and exceeds the educational minimums recommended by the Industrial Designers Society of America (IDSA). The program consists of courses in design theory and practice, as well as support courses in the humanities, the physical and natural sciences, and the behavioral and social sciences. The responsive curriculum maintains a balance between technical, aesthetic, and humanistic aspects and keeps pace with the leading edge of design technology by anticipating developments in the field.

Upper-level students in the program participate in collaborative projects with business, industry, and government agencies. These projects challenge students with real-life design problems. Industrial and interaction design students have an active chapter of the IDSA, which plans lecture programs, organizes field trips to consultant and corporate design offices, and participates in regional and national meetings of the society. Students may also apply to spend one semester of their fourth year at the SU Abroad Center in London.

MAJOR REQUIREMENTS

First Year, Fall Semester

ART 101 First-Year Colloquium 0

Art or design history 3

FND Studio 3

FND Studio 3

WRT 105 Writing Studio 1 3

Elective 3

Elective (optional) 3

15-18

First Year, Spring Semester

Art or design history 3

FND Studio 3

FND Studio 3

Elective 3

Elective 3

Elective (optional) 3

15-18

Sophomore Year, Fall Semester

IND 271 Principles of Industrial Design I 3

IND 273 Principles of Industrial Form I 3

WRT 205 Writing Studio 2 3

Studio elective 3

Art History 3

15

Sophomore Year, Spring Semester

IND 272 Principles of Industrial Design II 3

IND 274 Principles of Industrial Form II 3

IND 276 Industrial Design: Visualization and Representation 3

Studio elective 3

Academic elective 3

15

Junior Year, Fall Semester

IND 373 Production Processes: Metals 3

IND 375 Human Factors for Designers 3

IND 377 Industrial Design: Typography Studio 3

Academic elective 3

Studio elective 3

15

Junior Year, Spring Semester

IND 374 Production Processes: Plastics 3

IND 376 Digital Surface Modeling 3

IND 378 Symbolology and Semiotics in Industrial Design 3

Academic electives 6

Studio elective 3

18

Senior Year, Fall Semester

IND 471 Multidisciplinary Product Development 3

IND 477 Primary and Secondary Research 3

IND 479 Industrial Design Interface 3

Academic elective 3

Studio elective 3

15

Senior Year, Spring Semester

IND 472 Industrial Design: Product Systems 3

IND 476 Industrial Design: Environmental Practicum 3

Art history 3

Academic electives 6

Studio elective 3

18

Fifth Year, Fall Semester

IND 571 Industrial Design: Product Practicum 3

IND 573 Industrial Design: Research 3

IND 577 Industrial Design: Philosophy and Ethics 3

Academic elective 3

Studio elective 3

15

Fifth Year, Spring Semester

IND 572 Industrial Design: Advanced Problems 3

IND 574 Industrial Design: Thesis 3

IND 578 Industrial Design: Professional Practice 3

Academic elective 3

Studio elective 3

15

Foundation 30-36

Studio concentration 66

Studio electives 24

Academic electives 27

Academic requirement 3

Art, design history 6

Total 156

Interior Design

Contact Lucinda Kaukas Havenhand, Department of Design The Warehouse, 6th Floor, 315-443-2455.

Faculty Lucinda Kaukas Havenhand, MaryEllen Letterman, Sarah Gillen Redmore

Through the exploration of the art and architecture of interior design, students solve problems in residential, commercial, business, public, and special use spaces. Students work closely with faculty in a studio environment similar to the professional design office experience. The curriculum and projects support the professional, multidisciplinary philosophy and foster the creation of humane, sustainable environments for people. Visualization and communications skills, as well as a strong technical component, provide a basis for the education of designers who will become creative problem solvers and leaders in various fields of interior design.

Students receive a broad liberal arts education in conjunction with studio courses in fine arts and crafts to complement their work in interior design. A sensitivity to the concerns of people, sustainable design practices and an understanding of the business of design contribute to their overall competence. Individual work experiences and actual and collaborative projects in the community and with industry expose students to current and future issues.

The program shares courses, design laboratories, and studios with industrial design and environmental design (interiors) and maintains a close relationship with professional designers, design societies, and manufacturers. Students and the program have received many national and international design awards. The program is accredited by the Council for Interior Design Accreditation (CIDA).

Students may spend a semester abroad in their junior year at SU's Design in London program (special application required).

MAJOR REQUIREMENTS

First Year, Fall Semester
ART 101 First-Year Colloquium 3
Art or design history 3
FND Studio 3
FND Studio 3
WRT 105 Writing Studio 1 3
Elective 3
Elective (optional) 3
15-18

First Year, Spring Semester
Art or design history 3
FND Studio 3
FND Studio 3
Elective 3
Elective 3
Elective (optional) 3
15-18

Sophomore Year, Fall Semester
ISD 251 Principles of Interior Design 3
ISD 253 Interior Design: Graphics 3
DES 121 Design Odyssey 3
Academic elective 3
Studio elective 3
Art history 3
18

Sophomore Year, Spring Semester
ISD 252 Interior Design: Residential 3
ISD 254 Interior Design: Representation 3
ISD 205 Drafting for Designers 3
ISD 206 Materials for Interior Designers 3
WRT 205 Writing Studio 2 3
15

Junior Year, Fall Semester
ISD 351 Interior Design: Office Planning 3
ISD 353 Architectural Systems for Designers 3
ART 201 Historic Backgrounds to 1600 3
Studio elective 3
Academic electives 6
18

Junior Year, Spring Semester
ISD 352 Interior Design: Contract 3
ISD 354 Architectural Systems for Designers 3
ART 202 Historic Backgrounds, 1600 to Present 3
Studio elective 3
Academic elective 3
15

Senior Year, Fall Semester
ISD 451 Interior Design: Commercial 3
ISD 453 Interior Design: Systems 3
ISD 553 Interior Design: Philosophy and Research 3
Academic elective 3
Studio elective 3
15

Senior Year, Spring Semester
ISD 452 Interior Design: Public Space 3
ISD 454 Interior Design: Documentation 3

ISD 554 Interior Design: Professional Practice 3
Studio elective 3
Academic elective 3
15
Foundation 30
Studio concentration 51
Art history 9
Academic electives 18
Studio electives 15
Academic requirement 3
Total 126

Jewelry And Metalsmithing

Contact Barbara Walter, Department of Art, ComArt Building, 315-443-3700.

vpa.syr.edu/art-design/art/undergraduate/jewelry-metalsmithing

The jewelry and metalsmithing program leads to a B.F.A. degree and teaches students to manipulate a variety of metals with tools for aesthetic ends. The flexibility of the curriculum allows students to select the directions they wish their work to take, such as jewelry making, silversmithing, or processes that move across these traditions. In fact, students are encouraged to experiment across media lines so that traditional involvement with non-precious and precious metals is mixed with the exploration of plastics, woods, gemstones, and other materials.

Students in the program make objects that range from the highly functional to the purely expressive. They study such jewelry and metalsmithing techniques as forming, joining, molding, stoncutting, stone setting, and surface decorating. Related studies in the classical and contemporary uses of materials and tools, rendering, and small sculpture provide topics for independent research and investigation.

Excellent studio facilities and attentive instruction from professional artists provide a balanced experience in fine crafts making and industrial processes. Through close contact with faculty members, students participate in frequent group and individual critiques and are assisted in identifying and pursuing program and career goals.

The program in jewelry and metalsmithing requires 126 credits. First-year art and design majors are invited to enroll in introductory level classes.

MAJOR REQUIREMENTS

First Year, Fall Semester Credits

ART 101 First-Year Colloquium 0

Art or design history 3

FND Studio 3

FND Studio 3

WRT 105 Writing Studio 1 3

Elective 3

Elective (optional) 3

15-18

First Year, Spring Semester

Art or design history 3

FND Studio 3

FND Studio 3

Elective 3

Elective 3

Elective (optional) 3

15-18

Sophomore Year, Fall Semester

JAM 271 Introduction to Jewelry and Metalsmithing 3

Studio electives 6

Art history 3

Humanities elective 3

15

Sophomore Year, Spring Semester

JAM 272 Casting 3

Studio Electives 6

Academic elective 3

WRT 205 Writing Studio 2 3

15

Junior Year, Fall Semester

JAM 371 Surface Techniques and Processes 3

JAM 471 Metals History and Issues 3

Studio elective 3

Art history 3

Academic electives 6

18

Junior Year, Spring Semester

JAM 372 Metal Forming 3

JAM 472 Jewelry Production 3

Studio electives 3

Humanities elective 3

Art history 3
15

Senior Year, Fall Semester
JAM 373 Stones and Stone Setting 3
JAM 473 Machine Tools and Technology 3
Studio electives 6
Academic elective 6
18

Senior Year, Spring Semester
JAM 374 Color on Metal 3
JAM 475 Senior Portfolio and Exhibition 3
Studio electives 6
Academic elective 3
15

Foundation 30
Studio emphasis 30
Studio electives 30
Art history 9
Academic electives 24
Academic requirement 3
126

Music

Contact Eric Johnson, 211 Crouse College, 315-443-2512.

Performance See faculty listed under "Performance" program.

Composition See faculty listed under "Composition" program.

The bachelor of arts (B.A.) program in music provides a unique opportunity to blend extensive professional work in music with studies in the liberal arts. It allows students who wish to earn a degree in music the opportunity to devote more time to liberal arts studies than is permitted in the program leading to the bachelor of music (B.Mus.) degree. Students accepted into the B.A. program must meet the same audition and admission standards required of other Setnor School of Music applicants and must complete the same core of creative and professional music study.

Students in the B.A. music program must complete 126 to 129 credits to graduate. At least 44 credits are taken in The College of Arts and Sciences. At least 63 credits must be taken in music courses and 15 to 19 credits are apportioned to special music courses that support the principal performance area (or music electives), and to academic electives.

The arts and sciences requirements consist of 6 credits in writing (English), 8 credits in foreign language, and 6 credits in each of the following groups plus an additional 6 credits in each of two of the following groups: the social sciences; the natural sciences/mathematics; and humanities.

MAJOR REQUIREMENTS

First Year, Fall Semester
Weekly Student Convocation 0
Principal performance area 2
Secondary performance area 1
MTC 145 Diatonic Harmony I 3
MTC 147 Ear Training I 1
MHL 185 Introduction to World Music 3
Large ensemble 1
WRT 105 Writing Studio 1 3
Academic 3
17

First Year, Spring Semester
Weekly Student Convocation 0
Principal performance area 2
Secondary performance area 1
MTC 146 Diatonic Harmony II 3
MTC 148 Ear Training II 1
HOM 266 History of European Music Before 1750 3
Large ensemble 1
WRT 205 Writing Studio 2 3
Academic 3
17

Sophomore Year, Fall Semester
Weekly Student Convocation 0
Principal performance area 2
Secondary performance area 1
MTC 245 Chromatic Harmony I 3
MTC 247 Ear Training III 1
HOM 267 History of European Music 1750-1945 3
Large ensemble 1

Academic 3

14

Sophomore Year, Spring Semester

Weekly Student Convocation 0

Principal performance area 2

Secondary performance area 1

MTC 246 Chromatic Harmony II 3

MTC 248 Ear Training IV 1

HOM 268 European and American Music since 1945 3

Large ensemble 1

Academics 3

14-17

Junior Year, Fall Semester

Weekly Student Convocation 0

Principal performance area 1

CTG 545 Basic Conducting 2

Large ensemble 1

Foreign language 4

Academic 3

Music elective 3

Free elective 2

16

Junior Year, Spring Semester

Weekly Student Convocation 0

Principal performance area 1

Free electives 6

Large ensemble 1

Academics 6

Music elective 3

17

Senior Year, Fall Semester

Weekly Student Convocation 0

Principal performance area 1

500-level elective in music history and literature 3

Large ensemble 1

Small ensemble 1

Foreign language 4

Academic 3

Music elective 3

16

Senior Year, Spring Semester

Weekly Student Convocation 0

Principal performance area 1

Free electives 6

Large ensemble 1

Small ensemble 1

Academics 6

15

Total 126-129

Music Composition

Contact 119-B Crouse College, 917-826-8244.

Faculty Joseph Downing, Daniel S. Godfrey, Nicolas Scherzinger, Andrew Waggoner

The B.Mus. degree program in composition offers students individual instruction in composition and the opportunity to develop a wide range of musical skills, including solid performance skills on at least one instrument, thorough training in music theory and history, and an exhaustive study of instrumentation and orchestration.

MAJOR REQUIREMENTS

In addition to the first-year/sophomore core program, students must complete 62 to 64 credits in other courses, as indicated below. To reflect preparation for upper-division recital(s), upper-division credits in the principal performance area increase from 2 to 4 credits per hour of instruction.

First Year, Fall Semester

Weekly Student Convocation 0

Composition 2

Performance 1

MTC 051 Composition Seminar 0

MTC 145 Diatonic Harmony I 3

MTC 147 Ear Training I 1

MHL 185 Introduction to World Music 3

Large ensemble 1

WRT 105 Writing Studio 1 3

Area specialization/academic 1-3
15-17

First Year, Spring Semester
Weekly Student Convocation 0
Composition 2
Performance 1
MTC 052 Composition Seminar 0
MTC 146 Diatonic Harmony II 3
MTC 148 Ear Training II 1
HOM 266 History of European Music to 1750 3
Large ensemble 1
WRT 205 Writing Studio 2 3
Area specialization/academic 1-3
15-17

Sophomore Year, Fall Semester
Weekly Student Convocation 0
Composition 2
Performance 1
MTC 053 Composition Seminar 0
MTC 245 Chromatic Harmony I 3
MTC 247 Ear Training III 1
HOM 267 History of European Music 1750-1945 3
Large ensemble 1
Foreign Language 4
Academic 2-3
17-18

Sophomore Year, Spring Semester

Weekly Student Convocation 0
Composition 2
Performance 1
MTC 054 Composition Seminar 0
MTC 246 Chromatic Harmony II 3
MTC 248 Ear Training IV 1
HOM 268 European and American Music since 1945 3
Large ensemble 1
Academic 3
Area specialization/music elective 3
17

Junior Year, Fall Semester
Weekly Student Convocation 0
Composition 4
MTC 055 Composition Seminar 0
CTG 545 Basic Conducting 2
MTC 535 Orchestration 3
MTC 545 Counterpoint 3
Large ensemble 1
Small ensemble 1
Academic 3
17

Junior Year, Spring Semester
Weekly Student Convocation 0
Composition 4
Area specialization/music electives 3-5
MTC 056 Composition Seminar 0
MTC 546 20th-Century Analysis 3
Large ensemble 1
Small ensemble 1
Academic 3
15-17

Senior Year, Fall Semester
Weekly Student Convocation 0
Composition 4
MTC 057 Composition Seminar 0
MTC 560 Electronic Music 3
500-level elective in Music History and Literature 3
Large ensemble 1
Small ensemble 1
Area specialization/academic 3-5
15-17

Senior Year, Spring Semester
Weekly Student Convocation 0
Composition 4

Area specialization/music electives 3
MTC 058 Composition Seminar 0

MHL/MTC 566 Topics in Literature and Analysis 3
Large ensemble 1
Small ensemble 1
Area specialization/academic 3-5
15-17
Total 126-129

Music Education

Music Education (Dual Program)

Contact: John Coggiola, 110 Crouse College, 315-443-5896 or jccoggiol@syr.edu

Education contacts: Carol Radin or Pam Hachey, Assistant Directors of Academic Advising, 270 Huntington Hall, 315-443-9319.

College of Visual and Performing Arts contact: Marlene Lee, 200 Crouse College, 315-443-2517

The music education program, which leads to a Bachelor of Music degree, is designed to give students a strong foundation in musical and teaching skills and to enable them to obtain initial certification for public school teaching (pre-k-12) in New York State and other states with which there are reciprocal arrangements.

Music education students are dually enrolled in the Setnor School of Music and the School of Education. They may elect one of five emphases: brass, choral/general, woodwind, percussion, or strings. By graduation, students are expected to have achieved competencies in all the musical disciplines (e.g., principal and secondary performance areas, music history and theory, sight-singing and dictation, and conducting and ensemble participation) in addition to teaching competencies in such areas as classroom management techniques and curriculum development skills. Students must have achieved a 3.0 average in music and education courses, with an overall GPA of at least 2.8 before being permitted to student teach. Students also have opportunities to develop techniques of teaching general music as well as techniques of directing performance groups.

Academic credits are required in the following: 6 credits of social science (psychology or sociology), 3 credits in mathematics, 3 credits in the sciences, and 3 credits of multicultural humanities. Refer to the certification link for information about New York State certification.

Foreign Language: one course (minimum 3 credits) in a language other than English (including American Sign Language), or equivalent competency established by examination or level three of high school study. If requirement has already been met, one 3-credit liberal arts elective must be taken in its place.

PROGRAM REQUIREMENTS*

* This is a general list of major requirements for the music education major. Depending on which emphasis students choose (brass, choral/general, woodwind, percussion, or strings), the order of the courses may vary.

First Year, Fall Semester

Weekly Student Convocation (0 credits)
Principal performance area (2 credits)
MHL 185 Introduction to World Music (3 credits)
MTC 145 Diatonic Harmony I (3 credits)
MTC 147 Ear Training I (1 credit)
SED 340 Participation in the Professional Development School (0 credits)
Marching band (ensemble) or
AMC 545 Diction in Singing I (1-2 credits)
Piano or Voice (1 credit)
Ensemble(s) (1 credit)
WRT 105 Writing Studio 1 (3 credits)
Total credits: 15-16

First Year, Spring Semester

Weekly Student Convocation (0 credits)
Principal performance area (2 credits)
HOM 266 History of European Music Before 1750 (3 credits)
MTC 146 Diatonic Harmony II (3 credits)
MTC 148 Ear Training II (1 credit)
MUE 115 Technology in Music Education (2 credits)
AMC 546 Diction in Singing II (choral/general emphasis only) (2 credits)
SED 340 Participation in the Professional Development School (0 credits)
Ensemble(s) (1 credit)
Piano or voice (1 credit)
WRT 205 Writing Studio 2 (3 credits)
Total credits: 16-18

Sophomore Year, Fall Semester

Weekly Student Convocation (0 credits)
Principal performance area (2 credits)
Secondary performance area (1 credit)
HOM 267 History of European Music 1750-1945 (3 credits)
MTC 245 Chromatic Harmony I (3 credits)
MTC 247 Ear Training III (1 credit)
MUE 310 Field Experience in Music Education (1 credit)
MUE 215 Foundations of Music Education (3 credits)
SED 340 Participation in the Professional Development School (0 credits)
Ensemble(s) (1 credit)
Academic (3 credits)
Total credits: 18

Sophomore Year, Spring Semester

Weekly Student Convocation (0 credits)
Principal performance area (2 credits)
Secondary performance area (1 credit)
HOM 268 European and American Music Since 1945 (3 credits)
MTC 246 Chromatic Harmony II (3 credits)
MTC 248 Ear Training IV (1 credit)
MUE 310 Field Experience in Music Education (1 credit)
SED 340 Participation in the Professional Development School (0 credits)
Ensemble(s) (1 credit)
Academics (6 credits)
Total credits: 18

Junior Year, Fall Semester

Weekly Student Convocation (0 credits)
Principal performance area (1 credit)
Secondary performance area (1 credit)
CTG 545 Basic Conducting (2 credits)
EDU 204 Principles of Learning in Inclusive Classrooms (3 credits)
MUE 333 Music in the Elementary School (2 credits)
EDU 310 The American School (3 credits)
SED 340 Participation in the Professional Development School (0 credits)
Instrumental Methods (1 credit)
Jazz elective (1 credit)
Ensemble(s) (1 credit)
Academic (3 credits)
Total credits: 18

Junior Year, Spring Semester

Weekly Student Convocation (0 credits)
Principal performance area (1 credit)
Secondary performance area (1 credit)
SED 409 Adapting Instruction for Diverse Student Needs (3 credits)
MUE 334 Methods and Materials in General Music (2 credits)
MUE 518 Marching Band Techniques or
MHL 567 Survey of Choral Literature (2 credits)
SED 340 Participation in the Professional Development School (0 credits)
Choral or instrumental conducting (2 credits)
Instrumental methods (1 credit)
Jazz elective (1 credit)
Ensemble(s) (1 credit)
Academic (4 credits)
Total credits: 18

Senior Year, Fall Semester

Weekly Student Convocation (0 credits)
Principal performance area (1 credit)
MUE 321 Teaching of Voice for Schools (1 credit)
RED 326 Literacy Across the Curriculum (3 credits)
MTC 418 Choral Arranging or
MUE 415 Jazz Ensemble Techniques (2 credits)
SED 340 Participation in the Professional Development School (0 credits)
Instrumental methods (1 credit)
Instrumental methods/pedagogy (1 credit)
Instrumental/choral rehearsal techniques (3 credits)
Jazz elective (1 credit)
Ensemble(s) (1 credit)
Academic (3 credits)
Total credits: 17

Senior Year, Spring Semester

EDU 508 Student Teaching (12 credits)

Total Minimum Credits Required: 134

Consult with the School of Education, 270 Huntington Hall, regarding other New York State requirements for graduation.

Required Child Health And Life Safety Seminar Covering The Following Topics:

Identifying/reporting child abuse
Violence prevention
Child abduction prevention
Highway/general safety
Alcohol/drug/tobacco prevention
Fire and arson prevention

Music Industry

Contact William DiCosimo, 119 Crouse College, 315-443-1216.

Faculty James S. Abbott, Bill DiCosimo, David M. Rezak

vpa.syr.edu/music/programs/undergraduate/music-industry

The music industry program leads to a B.Mus. degree and is designed to help serious music students develop a high level of musical competency while learning about the theoretical and practical aspects of the industry.

Studies include a broad and thorough understanding of the elements of music and a functional knowledge of the history and literature of music. The program prepares students not only to be competent musicians, but to conceptualize and implement solutions to various industry problems. Students study and discuss the implications of current trends in the industry as they become familiar with the realities of general business and, in particular, with the creative and legal practices of the music business. In addition, students learn about professional organizations and their role in the industry. Students are encouraged to consider a music industry internship.

MAJOR REQUIREMENTS

First Year, Fall Semester

Weekly Student Convocation 0
MUI 103 Music Industry Forum 0
Principal performance area 2
Secondary performance area 1
MTC 145 Diatonic Harmony I 3
MTC 147 Ear Training I 1
MHL 185 Introduction to World Music 3
Large ensemble 1
WRT 105 Writing Studio 1 3
PSY 205 Foundations of Human Behavior 3
17

First Year, Spring Semester

Weekly Student Convocation 0
MUI 104 Music Industry Forum 0
Principal performance area 2
Secondary performance area 1
MTC 146 Diatonic Harmony II 3
MTC 148 Ear Training II 1
MHL 168 History of European Music Before 1750 3
Large ensemble 1
WRT 205 Writing Studio 2 3
SOC 101 Introduction to Sociology 3
17

Sophomore Year, Fall Semester

Weekly Student Convocation 0
MUI 203 Music Industry Forum 0
Principal performance area 2
Secondary performance area 1
MTC 245 Chromatic Harmony I 3
MTC 247 Ear Training III 1
MHL 267 History of European Music 1750-1945 3
MUI 205 Music Industry I 3
Large ensemble 1
ECN 202 Economic Ideas and Issues 3
17

Sophomore Year, Spring Semester

Weekly Student Convocation 0

MUI 204 Music Industry Forum 0
Principal performance area 2
Secondary performance area 1
MTC 246 Chromatic Harmony II 3
MTC 248 Ear Training IV 1

MHL 268 European and American Music since 1945 3
MUI 206 Music Industry II 3
Large ensemble 1
Academic elective 3
17

Junior Year, Fall Semester
Weekly Student Convocation 0
Principal performance area 1
CTG 545 Basic Conducting 2
MUI 303 Music Industry Forum 1
MUI 305 Music Industry & Media 3
MUI 307 Music Performance & Media 3
Large ensemble 1
MAR 255 Principles of Marketing 3
Academic or free elective 3
17

Junior Year, Spring Semester
Weekly Student Convocation 0
Principal performance area 1
Music History 3
MUI 304 Music Industry Forum 1
Music Theory 3
MUI 308 Live Sound and Concert Recording 3
Large ensemble 1
SHR 355 Introduction to Human Resource Management 3
Academic or free elective 3
18

Senior Year, Fall Semester
Weekly Student Convocation 0
Principal performance area 1
Music History 3
Music Theory 3
MUI 403 Music Industry Forum 1
MUI 405 Music Industry Law & Ethics 3
Large ensemble 1
Academic 3
Academic or free elective 3
18

Senior Year, Spring Semester
Principal performance area 1
MUI 402 Current State of Music Industry 2
MUI 406 Topics in Music Industry 2
MUI 408 Music Industry Practicum 5
(or equivalent coursework research)

Independent study in music 22
12
Total 133

(Music industry majors not enrolled in MUI 408 during their final semester must register for MHL 078 Weekly Student Convocation and a large ensemble.)

Music Industry - Minor

The Setnor School of Music offers two minors for non-music majors who wish to learn about the creative, business, and legal aspects of the music industry. To enroll in either music industry minor, students must apply to the chair of the music industry program. Auditions for private lessons and ensembles may be required for acceptance into Minor Plan II. The minor program is highly competitive, with a limited number of spaces, and application is encouraged before the beginning of the sophomore year and is required before the beginning of the junior year.

To complete a minor in music industry, students must complete 21 credits including at least 12 credits in courses numbered 300 or above.

MINOR PLAN I (21 credits)

Required Core
MUI 205 Music Industry I 3
MUI 206 Music Industry II 3
MUI 305 Music Industry and the Media 3
MUI 405 Music Industry Law and Ethics 3
Upper-level history course 3
Select 6 credits from the following courses
MUI 307 Music Performance and the Media 3
MUI 308 Live Sound and Concert Recording 3
MUI 402 Current State of the Music Industry 2
MUI 406 Topics in Music Industry 2
MUI 408 Music Industry Practicum 1-5
MUE 416 Psychological and Sociological Aspects of Music 3
MUI 303,304,403,404 Music Industry Forum

(1 credit each semester. Only 2 credits may be applied to minimum requirement for the minor.)

MINOR PLAN II (21 credits)

Required Core

MUI 106 Survey of the Music Industry 2
MTC 125 Introductory Music Theory 3
MUI 405 Music Industry Law and Ethics 3
MHL 364 History of American Popular Music or
MHL 385 World Music or
MHL 466 History of Jazz or
other upper-division MHL course with permission of instructor 3
Upper-level history course 3

Select 7 credits from the following courses

MUI 305 Music Industry and the Media 3
MUI 307 Music Performance and the Media 3
MUI 308 Live Sound and Concert Recording 3
MUI 402 Current State of the Music Industry 2
MUI 406 Topics in Music Industry 2
MUI 408 Music Industry Practicum 1-5
MUI 303,304,403,404 Music Industry Forum

(1 credit each semester. Only 2 credits may be applied to minimum requirement for the minor.)

APPLIED MUSIC AND ENSEMBLE Students may, pending audition, register for applied music and/or ensemble; only 2 credits

may be applied to minimum requirements for the minor.

Performance

The College of Visual and Performing Arts Minor in Music Performance presents an opportunity for students across the entire Syracuse University community to avail themselves of the diverse and rich performance culture offered by the Setnor School of Music. The minor consists of 18 credits, functioning as a performance - based minor that is intended to engage students in degree programs in all schools and colleges at Syracuse University. The minor will provide students not pursuing a degree in music a customizable music track that is simultaneously geared toward their talents and interest and structured to encourage interdisciplinary music making.

The Minor in Music Performance is designed for students with the requisite musical ability and interest to apply and further their previous training and experience in instrumental and vocal music. This program draws from the entire array of the Setnor School of Music's ensemble offerings, running the gamut from such ensembles as the University Orchestra, Percussion Ensemble, Symphony Band, Concert Choir, Brazilian Ensemble, Contemporary Music Ensemble, and many more.

By completion of the minor, students will have had opportunities to perform in a varied assortment of ensembles, helping them to be capable of continued music making throughout their adult lives.

This minor should attract students seeking means of musical expression that complement their studies at Syracuse University.

Musical Theater

Contact Department of Drama, 820 East Genesee Street, 315-443-2669.

Faculty Gerardine M. Clark, James Clark, Rodney S. Hudson, Elizabeth Ingram, Malcolm Ingram, Marie Kemp, Victor Lazarow, Craig MacDonald, Anthony Salatino, David Wanstreet

vpa.syr.edu/drama/undergraduate/musical-theater

The purpose of the musical theater program is to train students in a systematic way that prepares them to compete realistically in the complex professional world of musical theater. Achieving this goal requires a carefully structured balance of studio and academic work. Musical theater studio work requires skills not only in dramatic performance, but in music and dance as well. The B.F.A. program in musical theater utilizes the resources of both the Department of Drama and the Setnor School of Music. Students develop their skills in a structured, intensive format that features careful and expert guidance.

Performance is a major focus of the 128-credit program. Students gain skills and experience in the various modes of musical theater: the revue, traditional musical comedies, operettas, and new and experimental forms. Coursework includes a balance of acting, voice, dance, theater history, music theory, and liberal education studies.

The first year is the foundation for all future training. It focuses on techniques of acting, ballet, tap, voice—both singing and speaking, sight-singing, music theory, dramatic theory, and technical theater crafts. Writing is also a requirement for all musical theater majors. The first year is a non-performance year, but students are assigned to work on one production behind the scenes. They may elect to work on additional productions in a wide variety of jobs.

After the first year, students may audition for all productions—musicals, dramas, films—i.e., all productions connected with the Department of Drama and Syracuse Stage. They also begin specialized training in musical theater performance, scene study, audition techniques, musical theater history, musical theater dance, and choreography. Supplementing these studies are courses in theater history, additional weekly lessons in voice and piano, vocal ensemble experience, and academic electives.

MAJOR REQUIREMENTS

First Year, Fall Semester
DRA 090 Theater Laboratory 0
DRA 115 Introduction to the Theater 3

DRA 125 Introduction to Acting 3
Ballet 2
MTC 125 Introduction to Music Theory 3
DRD 115 Introduction to Theater Production 2
VOC 110 Voice Instruction 1
DRA 260 Musical Theater Practicum 1
WRT 105 Writing Studio 1 3
18

First Year, Spring Semester
DRA 090 Theater Laboratory 0
DRA 116 Introduction to the Theater II 3
DRA 126 Introduction to Acting II 6
Ballet 2
DRD 116 Introduction to Theater Production II 2
VOC 110 Voice Instruction 1
DRA 260 Musical Theater Practicum 1
MTC 225 Sight-Singing I 1
WRT 205 Writing Studio 2 3
19

Sophomore Year, Fall Semester
DRA 090 Theater Laboratory 0
DRA 352 Survey of Theater History 3
DRA 220 Introduction to Scene Study 3
Ballet 2
Dance elective 2
DRA 261 Introduction to Musical Theater Performance 3
VOC 210 Voice Instruction 1
PNO 120 Piano Instruction 1
MTC 226 Sight-Singing II 1
DRA 221V oice/Verse Practicum I 3
19

Sophomore Year, Spring Semester
DRA 090 Theater Laboratory 0
DRA 453 History of Musical Theater 3
DRA 220 Introduction to Scene Study 3
Ballet 2
Dance 2
DRA 262 Introduction to Musical Theater Performance II 3

VOC 210 Voice Instruction 1
PNO 120 Piano Instruction 1
DRA 222 Voice/Verse Practicum II 3
18

Junior Year, Fall Semester
DRA 090 Theater Laboratory 0
Dance elective 2
VOC 310 Voice Instruction 1
DRA 362 Musical Theater Scene Study 3
Drama support 3
Academic elective 6
15

Junior Year, Spring Semester
DRA 090 Theater Laboratory 0
Dance elective 2
VOC 310 Voice Instruction 1
Drama support 3
Academic electives 9
15

Senior Year, Fall Semester
DRA 090 Theater Laboratory 0
DRA 410 Auditioning for Musical Theater 3
Dance elective 2
Drama support 3
VOC 410 Voice Instruction 1
Academic elective 3
12

Senior Year, Spring Semester
Upper-level Acting 3
DRA 450 Advanced Musical Theater Performance 3
Academic electives 6
12
Total 128

Organ

(ORGAN, PERCUSSION, PIANO, STRINGS, VOICE, WIND INSTRUMENTS)

Contact Bradley P. Ethington, 215 Crouse College, 315-443-5892.

The performance program leads to the B.Mus. degree and stresses the development of technical skills, repertory, poise, and overall musicianship. Since most performers continue study beyond the bachelor's degree, the program also provides a sound basis for advanced study. To reflect preparation for upper-division recital(s), upper-division credits in the principal performance area increase from 2 to 4 credits per hour of instruction.

MAJOR REQUIREMENTS

First Year, Fall Semester

Weekly Student Convocation 0
Principal performance area 2
Secondary performance area 1
MTC 145 Diatonic Harmony I 3
MTC 147 Ear Training I 1
MHL 185 Introduction to World Music 3
Large ensemble 1
WRT 105 Writing Studio 1 3
Area specialization/academic 1-3
15-17

First Year, Spring Semester

Weekly Student Convocation 0
Principal performance area 2
Secondary performance area 1
MTC 146 Diatonic Harmony II 3
MTC 148 Ear Training II 1
MHL 168 History of European Music Before 1750 3
Large ensemble 1
WRT 205 Writing Studio 2 3
Area specialization/academic 1-3
15-17

Sophomore Year, Fall Semester

Weekly Student Convocation 0
Principal performance area 2
Secondary performance area 1
MTC 245 Chromatic Harmony I 3
MTC 247 Ear Training III 1
MHL 267 History of European Music 1750-1945 3
Large ensemble 1
Foreign language 4
Academic 2
17

Sophomore Year, Spring Semester

Weekly Student Convocation 0

Principal performance area 2
Secondary performance area 1
MTC 246 Chromatic Harmony II 3
MTC 248 Ear Training IV 1
MHL 268 European and American Music since 1945 3
Large ensemble 1
Academic 3
Area specialization/music elective(s) 3
17

Junior Year, Fall Semester

Weekly Student Convocation 0
Principal performance area 4
MTC 545 Counterpoint 3
CTG 545 Basic Conducting 2
Large ensemble 1
Small ensemble/coaching 1
Academic 3
Area specialization/music elective(s) 2-3
16-17

Junior Year, Spring Semester

Weekly Student Convocation 0
Principal performance area/recital 4
MTC 546 Analysis of 20th-Century Music 3
Large ensemble 1

Small ensemble/coaching 1
Academic 3
Area specialization/music elective(s) 3-5
15-17
Senior Year, Fall Semester
Weekly Student Convocation 0
Principal performance area 4
500-level elective in music history and literature 3
Large ensemble 1
Small ensemble/coaching 1
Academic 3
Area specialization/music elective(s) 3-5
15-17
Senior Year, Spring Semester
Weekly Student Convocation 0
Principal performance area 4
MHL elective 3
Large ensemble 1
Small ensemble/coaching 1
Academic 3
Area specialization/music elective(s) 3-5
15-17

Painting

Contact Stephen Zaima, Department of Art, 102 Shaffer Art Building, 315-443-4613.

Faculty Sharon Gold, Andrew Havenhand, Michael Sickler, Ludwig K. Stein, Jerome P. Witkin, Stephen Zaima

vpa.syr.edu/art-design/art/undergraduate/painting

The B.F.A. degree program in painting requires 126 credits. Students who pursue this degree develop their technical skills through extensive studio work in painting, drawing, and special studio seminars. Courses in art history and critical theory expose students to concepts of the past and heighten their visual and intellectual perception. Students are encouraged to experiment in new directions and to remain open to innovative ideas and approaches as they develop their own unique means of expression.

Painting students study under a diversified professional faculty whose styles and modes of painting run the gamut of contemporary expression. There is also a visiting artist program. The Shaffer Art Building offers well-lit studios, a well-supervised wood shop, and individual studios for senior majors.

In addition, students can study abroad in our Florence program, as well as take classes in New York City as part of the SU MAYmester summer program.

MAJOR REQUIREMENTS

First Year, Fall Semester
ART 101 First-Year Colloquium 0
Art or design history 3
FND Studio 3
FND Studio 3
WRT 105 Writing Studio 1 3
Elective 3
Elective (optional) 3
15-18

First Year, Spring Semester
Art or design history 3
FND Studio 3
FND Studio 3
Elective 3
Elective 3
Elective (optional) 3
15-18

Sophomore Year, Fall Semester
PTG 281 Introductory Painting 3
PTG 255 or Figure Drawing 3
PTG 256
Studio electives 6
Academic elective 3
Art history 3
18

Sophomore Year, Spring Semester
PTG 282 Introductory Painting 3
Studio electives 9
WRT 205 Writing Studio 2 3
Academic elective 3
18

Junior Year, Fall Semester
PTG 381 Intermediate Painting 3

Studio electives 6
Academic elective 3
Art history 3
15

Junior Year, Spring Semester
PTG 382 Intermediate Painting 3
PTG 355 or 356 Intermediate Drawing 3
Studio elective 3
Academic elective 3
Art history 3
15

Senior Year, Fall Semester
PTG 481 Advanced Painting 3
Studio elective 3
Academic electives 6
Painting elective 3
15

Senior Year, Spring Semester
PTG 482 Advanced Painting 3
Studio elective 3
Academic elective 3
Painting electives 6
15

Foundation 30
Studio concentration 33
Studio electives 30
Academic electives 21
Academic requirement 3
Art history 9
Total 126

Percussion

(ORGAN, PERCUSSION, PIANO, STRINGS, VOICE, WIND INSTRUMENTS)

Contact Bradley P. Ethington, 215 Crouse College, 315-443-5892.

The performance program leads to the B.Mus. degree and stresses the development of technical skills, repertory, poise, and overall musicianship. Since most performers continue study beyond the bachelor's degree, the program also provides a sound basis for advanced study. To reflect preparation for upper-division recital(s), upper-division credits in the principal performance area increase from 2 to 4 credits per hour of instruction.

MAJOR REQUIREMENTS

First Year, Fall Semester

Weekly Student Convocation 0
Principal performance area 2
Secondary performance area 1
MTC 145 Diatonic Harmony I 3
MTC 147 Ear Training I 1
MHL 185 Introduction to World Music 3
Large ensemble 1
WRT 105 Writing Studio 1 3
Area specialization/academic 1-3
15-17

First Year, Spring Semester
Weekly Student Convocation 0
Principal performance area 2
Secondary performance area 1
MTC 146 Diatonic Harmony II 3
MTC 148 Ear Training II 1
MHL 168 History of European Music Before 1750 3
Large ensemble 1
WRT 205 Writing Studio 2 3
Area specialization/academic 1-3
15-17

Sophomore Year, Fall Semester
Weekly Student Convocation 0
Principal performance area 2
Secondary performance area 1
MTC 245 Chromatic Harmony I 3
MTC 247 Ear Training III 1
MHL 267 History of European Music 1750-1945 3
Large ensemble 1

Foreign language 4
Academic 2
17
Sophomore Year, Spring Semester

Weekly Student Convocation 0

Principal performance area 2
Secondary performance area 1
MTC 246 Chromatic Harmony II 3
MTC 248 Ear Training IV 1
MHL 268 European and American Music since 1945 3
Large ensemble 1
Academic 3
Area specialization/music elective(s) 3

17
Junior Year, Fall Semester
Weekly Student Convocation 0

Principal performance area 4
MTC 545 Counterpoint 3
CTG 545 Basic Conducting 2
Large ensemble 1
Small ensemble/coaching 1
Academic 3
Area specialization/music elective(s) 2-3

16-17
Junior Year, Spring Semester
Weekly Student Convocation 0
Principal performance area/recital 4
MTC 546 Analysis of 20th-Century Music 3
Large ensemble 1
Small ensemble/coaching 1

Academic 3
Area specialization/music elective(s) 3-5
15-17

Senior Year, Fall Semester
Weekly Student Convocation 0
Principal performance area 4
500-level elective in music history and literature 3
Large ensemble 1
Small ensemble/coaching 1

Academic 3
Area specialization/music elective(s) 3-5
15-17

Senior Year, Spring Semester
Weekly Student Convocation 0
Principal performance area 4
MHL elective 3
Large ensemble 1
Small ensemble/coaching 1

Academic 3
Area specialization/music elective(s) 3-5
15-17

Piano

ORGAN, PERCUSSION, PIANO, STRINGS, VOICE, WIND INSTRUMENTS)

Contact Bradley P. Ethington, 215 Crouse College, 315-443-5892.

The performance program leads to the B.Mus. degree and stresses the development of technical skills, repertory, poise, and overall musicianship. Since most performers continue study beyond the bachelor's degree, the program also provides a sound basis for advanced study. To reflect preparation for upper-division recital(s), upper-division credits in the principal performance area increase from 2 to 4 credits per hour of instruction.

MAJOR REQUIREMENTS

First Year, Fall Semester

Weekly Student Convocation 0
Principal performance area 2
Secondary performance area 1
MTC 145 Diatonic Harmony I 3
MTC 147 Ear Training I 1
MHL 185 Introduction to World Music 3
Large ensemble 1
WRT 105 Writing Studio 1 3
Area specialization/academic 1-3
15-17

First Year, Spring Semester
Weekly Student Convocation 0
Principal performance area 2
Secondary performance area 1
MTC 146 Diatonic Harmony II 3
MTC 148 Ear Training II 1
MHL 168 History of European Music Before 1750 3
Large ensemble 1
WRT 205 Writing Studio 2 3
Area specialization/academic 1-3
15-17

Sophomore Year, Fall Semester
Weekly Student Convocation 0
Principal performance area 2
Secondary performance area 1
MTC 245 Chromatic Harmony I 3
MTC 247 Ear Training III 1
MHL 267 History of European Music 1750-1945 3
Large ensemble 1
Foreign language 4
Academic 2
17
Sophomore Year, Spring Semester

Weekly Student Convocation 0

Principal performance area 2
Secondary performance area 1
MTC 246 Chromatic Harmony II 3
MTC 248 Ear Training IV 1
MHL 268 European and American Music since 1945 3
Large ensemble 1
Academic 3
Area specialization/music elective(s) 3
17

Junior Year, Fall Semester
Weekly Student Convocation 0
Principal performance area 4
MTC 545 Counterpoint 3
CTG 545 Basic Conducting 2
Large ensemble 1
Small ensemble/coaching 1
Academic 3
Area specialization/music elective(s) 2-3
16-17

Junior Year, Spring Semester
Weekly Student Convocation 0
Principal performance area/recital 4
MTC 546 Analysis of 20th-Century Music 3
Large ensemble 1
Small ensemble/coaching 1
Academic 3
Area specialization/music elective(s) 3-5
15-17

Senior Year, Fall Semester
Weekly Student Convocation 0
Principal performance area 4
500-level elective in music history and literature 3
Large ensemble 1
Small ensemble/coaching 1
Academic 3
Area specialization/music elective(s) 3-5
15-17

Senior Year, Spring Semester
Weekly Student Convocation 0
Principal performance area 4
MHL elective 3
Large ensemble 1
Small ensemble/coaching 1
Academic 3
Area specialization/music elective(s) 3-5
15-17

Printmaking

Contact Holly Greenberg, Department of Art, ComArt Building, 315-443-3700.

Faculty Holly Greenberg, Dusty Herbig

vpa.syr.edu/art-design/art/undergraduate/printmaking

All printmaking courses are offered in a workshop environment to make available a variety of traditional and contemporary processes in intaglio, lithography, serigraphy, relief, collography, and photographic processes in printmaking. Advanced students work in hand papermaking and bookmaking as well. A broad drawing curriculum is considered essential to printmaking. In addition, the student is encouraged to take advantage of other disciplines and resources in the school and the University.

The B.F.A. degree program in printmaking, requiring 126 credits, promotes an open, experimental attitude within the rigors of high professional and technical standards. Students are urged to explore the various technical printmaking processes and their aesthetic qualities before narrowing their interests to a specific technique. As their studies progress, students may pursue a more thorough investigation of a particular process. Students may, however, decide to continue working within a broad scope of printmaking throughout their college careers, taking advantage of the overlapping aesthetic and technical possibilities existing in the range of printmaking processes.

Regular critiques of student work provide an active exchange of ideas on aesthetic and media interests. Faculty members can help students identify and work toward their educational and career goals while they complete the requirements of the program.

MAJOR REQUIREMENTS

First Year, Fall Semester
ART 101 First-Year Colloquium 0
Art or design history 3
FND Studio 3
FND Studio 3
WRT 105 Writing Studio 1 3
Elective 3
Elective (optional) 3
15-18

First Year, Spring Semester
Art or design history 3
FND Studio 3
FND Studio 3
Elective 3
Elective 3
Elective (optional) 3
15-18

Sophomore Year, Fall Semester
PRT 251 Printmaking: Introductory Intaglio 3
Drawing elective 3
Studio elective 3
Academic elective 3
Art history 3
15

Sophomore Year, Spring Semester
PRT 253 Printmaking: Introductory Lithography 3
Drawing elective 3
Studio elective 3
Academic elective 3
Art history 3
WRT 205 Writing Studio 2 3
18

Junior Year, Fall Semester
PRT 257 Printmaking: Introduction Relief 3
PRT 351 Printmaking: Intermediate Workshop 3
Studio elective 3
Academic elective 3
Art history 3
15

Junior Year, Spring Semester
PRT 255 Printmaking: Introductory Serigraphy 3
PRT 352 Printmaking: Intermediate Workshop 3
Studio electives 6
Academic electives 6
18

Senior Year, Fall Semester
PRT 451 Printmaking: Advanced Workshop 3
PRT 551 Hand Papermaking Workshop 3
Studio electives 6
Academic elective 3
15

Senior Year, Spring Semester
PRT 430 Senior Portfolio and Research Paper: Printmaking 3
PRT 452 Printmaking: Advanced Workshop 3
PRT 552 Hand Paper Print/Book Workshop 3
Studio elective 3

Academic elective 3
15

Foundation 30
Studio concentration 39
Studio electives 24
Academic electives 21
Academic requirement 3
Art history 9
Total 129

Bandier Program

Bandier Program for Music and the Entertainment Industries

Contact 207 Crouse College, 315-443-1388.

Faculty David M. Rezak

vpa.syr.edu/bandier

The Bandier Program for the Entertainment Industries (Recording and Allied Entertainment Industries (RAE)) is a multidisciplinary program housed within the Setnor School of Music in the College of Visual and Performing Arts. The program leads to a bachelor of science degree, and includes an understanding of music, communications, business, and entrepreneurship. It provides a global view of music and its role in entertainment media. The program relies on additional coursework in the S.I. Newhouse School of Public Communications, the Whitman School of Management, and the College of Arts and Sciences. A strong liberal arts component rounds out the program. Using industry-leading alumni and friends, plus the University's vast resources, this unique program prepares students to compete in the fast-paced, ever-evolving entertainment industry.

Students are encouraged to take real-life experiences in the form of internships (experience credit), and to pursue particular areas of interest within the industry with independent study courses. Juniors and seniors have the option of spending a semester in Los Angeles, California. Seniors are encouraged to study the rapidly evolving global business environment in London for their fall semester. A London internship is one of several encouraged and coordinated by the program. An alternative option is also available for those who are not able to attend the London semester.

The Bandier Program has been designed with input from some of the most respected executives in music and entertainment. These high-ranking leaders, many of whom are alumni, are committed to ongoing involvement as visiting lecturers in both the Soyars Leadership Series and the Music Industry Forum.

There are no audition or performance requirements for admission into the program. Students will complete a single degree in the College of Visual and Performing Arts (125 credits).

Sculpture

Contact Sam Van Aken, Department of Art, ComArt Building, 315-443-3700 or 315-443-3619.

Faculty Robert Wysocki

vpa.syr.edu/art-design/art/undergraduate/sculpture

Sculpture involves three-dimensional experimentation with forms, materials, and concepts. Students in this B.F.A. degree program, which requires 126 credits, consider problems of composition and expression in traditional media (metals, clay, and wood) as well as contemporary modes (plastics, mixed media, and digital).

The program stresses individual growth and the development of innovative ideas and forms through a wide variety of technical processes. The large degree of freedom in the program requires individual responsibility on the part of each student. The department provides faculty assistance and guidance, optimal facilities, and lectures and workshops by visiting artists.

Courses in sculpture introduce students to the broad range of sculptural processes. They learn modeling, welding techniques, polymers and casting metals, casting resins and fiberglass lay-up, wood carving, lamination, and contemporary media. Advanced studios allow students to pursue a sculptural area of concentration, such as a thematic direction or a specific medium.

Faculty members maintain close contact with students to ensure the open exchange of ideas and to observe student progress. Visiting artists and lecturers bring additional insights and experiences to workshops and guest professorships.

MAJOR REQUIREMENTS

First Year, Fall Semester
ART 101 First-Year Colloquium 0
Art or design history 3
FND Studio 3
FND Studio 3
WRT 105 Writing Studio 1 3
Elective 3
Elective (optional) 3
15-18

First Year, Spring Semester
Art or design history 3
FND Studio 3

FND Studio 3
Elective 3
Elective 3
Elective (optional) 3
15-18

Sophomore Year, Fall Semester
SCU 295 Introductory Sculpture 3
Studio electives 6
Academic elective 3
Art history 3
15

Sophomore Year, Spring Semester
SCU 296 Introductory Sculpture 3
Studio electives 3-6
Academic electives 6
WRT 205 Writing Studio 2 3
15-18

Junior Year, Fall Semester
SCU 391 Wood and Mixed-Media Research 3
SCU 395 Intermediate Sculpture 3
Studio elective 3-6
Academic elective
Art history 3
15-18

Junior Year, Spring Semester
SCU 392 Plastics-Techniques Research 3
SCU 396 Intermediate Sculpture 3
Studio electives 6
Academic elective 3
Art history 3
18

Senior Year, Fall Semester
SCU 495 Advanced Sculpture 3
Sculpture elective 3
Studio electives 6
Academic elective 3
15

Senior Year, Spring Semester
SCU 496 Advanced Sculpture 3
Sculpture elective 3
Studio electives 6
Academic elective 3
15

Foundation 30
Studio concentration 30
Studio electives 33
Academic electives 21
Academic requirement 3
Art history 9
Total 126

SPECIAL STUDIES IN ART

The special studies in art program leads to the B.F.A. degree and is designed expressly for interdisciplinary study. The program is not automatically available; it must be mutually approved by the advisors in the various areas incorporated into the program. All applicants must undergo a personal interview and a portfolio review. In addition, a written proposal for the complete program of study is required, including specific courses and credits. Students are expected to complete the foundation program, and sophomores must have a 3.0 cumulative grade point average and a portfolio of superior caliber to be accepted. The decision to enroll in the special studies program must be made before the student accumulates 60 credits.

For further information and instructions for application, contact the Department of Art, 102 Shaffer Art Building, 315-443-4613.

COURSES FOR NON-ART STUDENTS

Some studio and academic courses are open to non-art majors:

FND 102/103, 104,105,106,107,108, PTG 203/204, 503/504, SCU 207,208,507,508.

Stage Management

Contact Department of Drama, 820 East Genesee Street, 315-443-2669.

Faculty Don Buschmann

vpa.syr.edu/drama/undergraduate/stage-management

The stage management program prepares the student for a career as a professional stage manager. Program requirements are a combination of classes and experiential learning. The department works hand in hand with Syracuse Stage to provide a learning environment that emulates the professional world of the stage manager. First-year stage management students participate behind the scenes as production assistants. From the second year on, the students participate as assistant stage managers and production stage managers for main stage and Black Box Theatre productions. Advanced students may qualify for internships with Syracuse Stage productions and stage management departments that allow them to work as production assistants on professional productions.

The stage management program leads to a B.F.A. degree and requires 124 credits.

MAJOR REQUIREMENTS

First Year, Fall Semester

DRA 090 Theater Laboratory 0
DRA 115 Introduction to the Theater 3
DRD 141 Introduction to Theater Design 3
DRD 251 Introduction to Stage Management 3
DRD 140 Introduction to Theater Crafts 3
DRD 112 Drafting for the Theater 3
WRT 105 Writing Studio 1 3
18

First Year, Spring Semester

DRA 090 Theater Laboratory 0
DRA 116 Introduction to the Theater II 3
DRD 142 Introduction to Theater Design II 3
DRD 240 Introduction to Theater Crafts II 3
WRT 205 Writing Studio 2 3
Academic electives 6
18

Sophomore Year, Fall Semester

DRA 090 Theater Laboratory 0
DRA 355 Development of Theater and Drama I 3
DRD 340 Stage Management Rehearsal Techniques 2
DRA 105 Introduction to Acting 3
DRD 331 Stage Lighting I 3
Technical Practicum #1 2
Academic elective 3
16

Sophomore Year, Spring Semester

DRA 090 Theater Laboratory 0
DRA 356 Development of Theater and Drama I 3
DRD 460 Stage Management for Production 2
DRD 541 Projects in Technical Practice 3
DRD 450 Stage Management Performance Techniques 3
Technical Practicum #2 2
Academic elective 3

16

Junior Year, Fall Semester

DRA 090 Theater Laboratory 0
DRA 515 Play Analysis and Introduction to Mise-en-Scène 3
DRD 492 Production Management 3
Technical Practicum #3 3
Drama elective 2
Drama literature 3
Academic elective 3
16

Junior Year, Spring Semester

DRA 090 Theater Laboratory 0
DRD 460 Stage Management for Production 4
DRA 491 Theater Management 3
Drama elective 3
Academic electives 6
16

Senior Year, Fall Semester

DRA 090 Theater Laboratory 0
DRD 460 Stage Management for Production 4
DRA 531 Introduction to Directing 3
Technical Practicum #4 2
Academic elective 3
12

Senior Year, Spring Semester
DRD 599 Internship 6
Drama elective 3
DRD 542 Projects in Technical Practice: Touring 3
12
Total 124

Strings

(ORGAN, PERCUSSION, PIANO, STRINGS, VOICE, WIND INSTRUMENTS)

Contact Bradley P. Ethington, 215 Crouse College, 315-443-5892.

The performance program leads to the B.Mus. degree and stresses the development of technical skills, repertory, poise, and overall musicianship. Since most performers continue study beyond the bachelor's degree, the program also provides a sound basis for advanced study. To reflect preparation for upper-division recital(s), upper-division credits in the principal performance area increase from 2 to 4 credits per hour of instruction.

MAJOR REQUIREMENTS

First Year, Fall Semester

Weekly Student Convocation 0
Principal performance area 2
Secondary performance area 1
MTC 145 Diatonic Harmony I 3
MTC 147 Ear Training I 1
MHL 185 Introduction to World Music 3
Large ensemble 1
WRT 105 Writing Studio 1 3
Area specialization/academic 1-3
15-17

First Year, Spring Semester

Weekly Student Convocation 0
Principal performance area 2
Secondary performance area 1
MTC 146 Diatonic Harmony II 3
MTC 148 Ear Training II 1
MHL 168 History of European Music Before 1750 3
Large ensemble 1
WRT 205 Writing Studio 2 3
Area specialization/academic 1-3
15-17

Sophomore Year, Fall Semester

Weekly Student Convocation 0
Principal performance area 2
Secondary performance area 1
MTC 245 Chromatic Harmony I 3
MTC 247 Ear Training III 1
MHL 267 History of European Music 1750-1945 3
Large ensemble 1
Foreign language 4
Academic 2
17

Sophomore Year, Spring Semester

Weekly Student Convocation 0

Principal performance area 2
Secondary performance area 1
MTC 246 Chromatic Harmony II 3
MTC 248 Ear Training IV 1
MHL 268 European and American Music since 1945 3
Large ensemble 1
Academic 3
Area specialization/music elective(s) 3
17

Junior Year, Fall Semester

Weekly Student Convocation 0
Principal performance area 4
MTC 545 Counterpoint 3
CTG 545 Basic Conducting 2
Large ensemble 1
Small ensemble/coaching 1
Academic 3
Area specialization/music elective(s) 2-3

16-17
Junior Year, Spring Semester
Weekly Student Convocation 0
Principal performance area/recital 4
MTC 546 Analysis of 20th-Century Music 3
Large ensemble 1
Small ensemble/coaching 1
Academic 3
Area specialization/music elective(s) 3-5
15-17
Senior Year, Fall Semester
Weekly Student Convocation 0
Principal performance area 4
500-level elective in music history and literature 3
Large ensemble 1
Small ensemble/coaching 1
Academic 3
Area specialization/music elective(s) 3-5
15-17
Senior Year, Spring Semester
Weekly Student Convocation 0
Principal performance area 4
MHL elective 3
Large ensemble 1
Small ensemble/coaching 1
Academic 3
Area specialization/music elective(s) 3-5
15-17

Surface Pattern Design

Contact Lucinda Havenhand, Department of Design, The Warehouse, 6th Floor, 315-443-4644.

Faculty Marion Yvonne Dorfer, Eileen Gosson

Please note that the B.F.A. program in surface pattern design is not accepting new applications at this time. Please contact the college's Office of Recruitment and Admissions for more detailed information about your options, 315-443-2769.

Surface pattern design concentrates on the development of designs that are manufactured for decorative surface treatments. The program, which leads to the B.F.A. degree and requires 126 credits, provides the background necessary for understanding the many facets of the profession.

Studios provide practical experience that focuses on professional design methods used for the residential home furnishings industry, which encompasses the markets of printed fabric for drapery, upholstery, bedding, wall coverings, carpeting, and more. Students also gain knowledge in prominent areas of the apparel, paper product, and commercial application of decorative design. Computer-aided design provides a link to the technological practices, uses, and developments in industry.

Field trips, guest speakers, and collaborative projects are an integral part of the student's education and provide additional support for the practical studio, business, and production practices taught in the classroom. Students participate in competitions each year and gain national and international exposure.

Art and design history, academic, and studio electives provide the student with the opportunity to pursue areas of interest in the humanities, sciences, and other creative disciplines.

MAJOR REQUIREMENTS

First Year, Fall Semester Credits
ART 101 First-Year Colloquium 0
Art or design history 3
FND Studio 3
FND Studio 3
WRT 105 Writing Studio 1 3
Elective 3
Elective (optional) 3
15-18

First Year, Spring Semester
Art or design history 3
FND Studio 3
FND Studio 3
Elective 3
Elective 3
Elective (optional) 3
15-18

Sophomore Year, Fall Semester
SPD 243 Surface Pattern Design: Repeats and Techniques I 3
SPD 245 Surface Pattern Design: Creative Media and 3
Design Techniques
Special Topics 3
Studio elective 3

Academic elective 3
15

Sophomore Year, Spring Semester
SPD 244 Surface Pattern Design: Repeats and Techniques II 3
SPD 246 Surface Pattern Design: Analysis of Color 3
for Production
ART 206 Survey of Decorative Ornament 3
DES 267 Textiles for Designers 3
Academic elective 3
WRT 205 Writing Studio 2 3
18

Junior Year, Fall Semester
SPD 343 Surface Pattern Design: Home Furnishings I 3
Art history 3
Studio electives 9
Academic elective 3
18

Junior Year, Spring Semester
SPD 327 Surface Pattern Design: Introduction to Textile Printing 3
SPD 367 Surface Pattern Design: Introduction to Computer-Aided 3
Pattern Design
Art history 3
Studio elective 3
Academic elective 3
15

Senior Year, Fall Semester
SPD 445 Surface Pattern Design: Applied Design Concepts I 3
SPD 447 Surface Pattern Design: Professional Practices 3
Studio electives 6
Academic elective 3
15

Senior Year, Spring Semester
SPD 446 Surface Pattern Design: Applied Design Concepts II 3
SPD 448 Surface Pattern Design: Senior Portfolio Collection 3
Studio elective 3
Academic electives 6
15

Foundation 30-36
Studio emphasis 39
Studio electives 27
Academic requirement 3
Academic electives 21
Art history 6
Total 126

Theater Minor

THEATER MINOR

The Department of Drama currently offers a minor to those students enrolled in other courses of study. Students must petition the drama faculty, have a 2.5 grade point average, and have at least a sophomore standing. Fifteen students are accepted as minors each year on a “first-come, first-served” basis. Minors must fulfill 18 credits of class, including 3 credits of introduction to the theater (DRA 115) and 3 credits of theater history (DRA 352, 355, or 356). At least 9 of the remaining 12 credits must be in upper-level classes. Students may select courses from among classes in history, dramatic literature, theater management, theater design and technology, acting for nonmajors, and others.

Theater Design & Technology

The bachelor of fine arts (B.F.A.) degree program in theater design and technology combines both classroom and hands-on learning experiences. The 130-credit curriculum stresses building a firm foundation in the arts and the humanities as well as in the applied aspects and crafts of the theater.

vpa.syr.edu/drama/undergraduate/theater-design

The program in theater design and technology is conducted within a stimulating environment that combines both classroom and hands-on learning experiences. The curriculum stresses all aspects of the theater as well as a firm foundation in liberal education. In the first year, theater design and technology majors participate in the foundation program in the School of Art and Design to enhance their drawing skills in addition to their theater courses. They also are an integral part of Drama Department productions as members of backstage crews and as assistants to designers. This interaction between theory and practice is an essential part of developing an educated, creative theater person.

Students design many Department of Drama productions and work with the professional staff and company of Syracuse Stage. Seniors in the program are eligible for internships with Syracuse Stage.

Students interested in design may specialize in one or more areas: set design, costume design, and lighting design. Courses in studio art, art and architectural history, and costume history contribute to developing conceptual design skills. The theater design and technology program also offers training in the use of computers as design tools. Facilities include two design studios, a LightBox and a CAD lab in addition to the technical shops shared with Syracuse Stage.

Students interested in the technical aspects of theater may specialize in scene construction and painting, lighting, properties, or costumes.

The B.F.A. program requires 130 credits and is appropriate for students interested in a career in theater design or technical theater. An in-person or telephone interview with a faculty member is required for admission. A portfolio submission is required.

Students wishing to explore a curriculum that combines technical theater with a broader liberal arts content may apply for the B.S. degree in drama, with a theater design and technology emphasis.

B.F.A. DEGREE REQUIREMENTS

Please note that distribution and order of academic requirements/electives will be determined in consultation with the student's faculty advisor.

First Year, Fall Semester

DRA 090 Theater Laboratory 0
DRA 115 Introduction to the Theater 3
DRD 141 Introduction to Theater Design 3
WRT 105 Writing Studio 1 3
DRD 112 Drafting for the Theater 3
FND 113 Drawing 3
DRD 140 Introduction to Theater Crafts I 3
18

First Year, Spring Semester

DRA 090 Theater Laboratory 0
DRA 116 Introduction to the Theater II 3
DRD 142 Introduction to Theater Design II 3
DRD 240 Introduction to Theater Crafts II 3
FND 114 Special Topics in Foundation Drawing 3
DRD 111 Media, Methods, and Materials 3
WRT 205 Writing Studio 2 3
18

Sophomore Year, Fall Semester

DRA 090 Theater Laboratory 0
DRA 355 Development of Theater and Drama I 3
Level I Design* 3
Level I Design* 3
Technical Support 3
DRD 270 Experience credit 1
FND/DRD Studio Elective 3

16

Sophomore Year, Spring Semester

DRA 090 Theater Laboratory 0
DRA 356 Development of Theater and Drama II 3
Level II Design 3
Level II Design 3
Theater practicum 2
Academic elective 3
DRD 270 Experience credit 2
16

Junior Year, Fall Semester

DRA 090 Theater Laboratory 0
DRA 515 Play Analysis and Introduction to Mise-en-Scène 3
DRD 470 Experience credit 3
Level I Design* 3
DRD practicum 2
Art history elective 3
Academic elective 3
17

Junior Year, Spring Semester

DRA 090 Theater Laboratory 0
DRA 531 Introduction to Directing 3
Level III Design* 3
Drama support 3
Drama Theater Practicum 2
Art history elective 3
Academic elective 3
17

Senior Year, Fall Semester

DRA 090 Theater Laboratory 0
Experience credit 2

Drama Literature 3
Drama support 3
DRA 105 Introduction to Acting 3
Academic elective 3
14
Senior Year, Spring Semester
Experience credit 2
Drama support 6
Academic elective 6
14
Total 130

* Courses with an asterisk may be taken in sequence appropriate to area of design focus.

Visual Culture Minor

The minor in Visual Culture exploits one of the unique strengths of Syracuse University: a world class arts school in the midst of a research institution. The minor is an interdisciplinary program sponsored by the following units: The School of Art and Design and Communication and Rhetorical Studies. The minor consists of 18 credits and functions as an academically-based minor that is intended to complement the studio-based majors in the College of Visual and Performing Arts and provide non-studio based majors a concentration in visual culture and criticism that is theoretically and historically informed. The minor is open to all Syracuse University undergraduates.

The Visual Culture minor provides students with the critical skills necessary to address the evolving intersection of art, design, and communication in a variety of contexts including the art world, consumer culture, politics, and popular culture. Drawing on the diversity of disciplinary approaches to visual culture, the minor fosters critical engagement with diverse modes of visual expression and communication, from advertising design and image activism to material culture and public sculpture.

The Visual Culture minor equips students with an interdisciplinary conceptual framework that will illuminate (1) the diverse sensory modes (i.e. verbal, aural, tactile, etc.) that inform and interact with visual expression; (2) the various institutional frameworks that shape the production, circulation, and reception of visual culture (from the nineteenth century forward); and (3) the historical and cultural contexts that normalize particular viewing practices and social formations.

By the completion of the minor, students will be adept in interdisciplinary viewing practices, familiar with diverse critical approaches to visual meaning, and an effective in communicating complex visual ideas.

The Visual Culture minor should be of interest to students who seek a program that focuses on visual culture as the nexus of creative practice, advocacy, and criticism.

ADMISSION REQUIREMENTS:

3.0 GPA (based on the completion of 30 credits). Must enter program no later than the first semester of junior year. Limited to 30 students initially. Applications accepted at any time, but will adhere to October 15 deadline for processing and approval in the Fall semester (March 1st for Spring semester).

Voice

(ORGAN, PERCUSSION, PIANO, STRINGS, VOICE, WIND INSTRUMENTS)

Contact Bradley P. Ethington, 215 Crouse College, 315-443-5892.

The performance program leads to the B.Mus. degree and stresses the development of technical skills, repertory, poise, and overall musicianship. Since most performers continue study beyond the bachelor's degree, the program also provides a sound basis for advanced study. To reflect preparation for upper-division recital(s), upper-division credits in the principal performance area increase from 2 to 4 credits per hour of instruction.

MAJOR REQUIREMENTS

First Year, Fall Semester

Weekly Student Convocation 0
Principal performance area 2
Secondary performance area 1
MTC 145 Diatonic Harmony I 3
MTC 147 Ear Training I 1
MHL 185 Introduction to World Music 3
Large ensemble 1
WRT 105 Writing Studio 1 3
Area specialization/academic 1-3
15-17

First Year, Spring Semester
Weekly Student Convocation 0
Principal performance area 2
Secondary performance area 1
MTC 146 Diatonic Harmony II 3
MTC 148 Ear Training II 1
MHL 168 History of European Music Before 1750 3
Large ensemble 1
WRT 205 Writing Studio 2 3

Area specialization/academic 1-3
15-17

Sophomore Year, Fall Semester
Weekly Student Convocation 0
Principal performance area 2
Secondary performance area 1
MTC 245 Chromatic Harmony I 3
MTC 247 Ear Training III 1
MHL 267 History of European Music 1750-1945 3
Large ensemble 1
Foreign language 4
Academic 2
17
Sophomore Year, Spring Semester

Weekly Student Convocation 0

Principal performance area 2
Secondary performance area 1
MTC 246 Chromatic Harmony II 3
MTC 248 Ear Training IV 1
MHL 268 European and American Music since 1945 3
Large ensemble 1
Academic 3
Area specialization/music elective(s) 3
17

Junior Year, Fall Semester
Weekly Student Convocation 0
Principal performance area 4
MTC 545 Counterpoint 3
CTG 545 Basic Conducting 2
Large ensemble 1
Small ensemble/coaching 1
Academic 3
Area specialization/music elective(s) 2-3
16-17

Junior Year, Spring Semester
Weekly Student Convocation 0
Principal performance area/recital 4
MTC 546 Analysis of 20th-Century Music 3
Large ensemble 1
Small ensemble/coaching 1
Academic 3
Area specialization/music elective(s) 3-5
15-17

Senior Year, Fall Semester
Weekly Student Convocation 0
Principal performance area 4
500-level elective in music history and literature 3
Large ensemble 1
Small ensemble/coaching 1
Academic 3
Area specialization/music elective(s) 3-5
15-17

Senior Year, Spring Semester
Weekly Student Convocation 0
Principal performance area 4
MHL elective 3
Large ensemble 1
Small ensemble/coaching 1
Academic 3
Area specialization/music elective(s) 3-5
15-17

Wind Instruments

(ORGAN, PERCUSSION, PIANO, STRINGS, VOICE, WIND INSTRUMENTS)

Contact Bradley P. Ethington, 215 Crouse College, 315-443-5892.

The performance program leads to the B.Mus. degree and stresses the development of technical skills, repertory, poise, and overall musicianship. Since most performers continue study beyond the bachelor's degree, the program also provides a sound basis for advanced study. To reflect preparation for upper-division recital(s), upper-division credits in the principal performance area increase from 2 to 4 credits per hour of instruction.

MAJOR REQUIREMENTS

First Year, Fall Semester

Weekly Student Convocation 0
Principal performance area 2
Secondary performance area 1
MTC 145 Diatonic Harmony I 3
MTC 147 Ear Training I 1
MHL 185 Introduction to World Music 3
Large ensemble 1
WRT 105 Writing Studio 1 3
Area specialization/academic 1-3
15-17

First Year, Spring Semester

Weekly Student Convocation 0
Principal performance area 2
Secondary performance area 1
MTC 146 Diatonic Harmony II 3
MTC 148 Ear Training II 1
MHL 168 History of European Music Before 1750 3
Large ensemble 1
WRT 205 Writing Studio 2 3
Area specialization/academic 1-3
15-17

Sophomore Year, Fall Semester

Weekly Student Convocation 0
Principal performance area 2
Secondary performance area 1
MTC 245 Chromatic Harmony I 3
MTC 247 Ear Training III 1
MHL 267 History of European Music 1750-1945 3
Large ensemble 1
Foreign language 4
Academic 2
17

Sophomore Year, Spring Semester

Weekly Student Convocation 0

Principal performance area 2
Secondary performance area 1
MTC 246 Chromatic Harmony II 3
MTC 248 Ear Training IV 1
MHL 268 European and American Music since 1945 3
Large ensemble 1
Academic 3
Area specialization/music elective(s) 3
17

Junior Year, Fall Semester

Weekly Student Convocation 0
Principal performance area 4
MTC 545 Counterpoint 3
CTG 545 Basic Conducting 2
Large ensemble 1
Small ensemble/coaching 1
Academic 3
Area specialization/music elective(s) 2-3
16-17

Junior Year, Spring Semester

Weekly Student Convocation 0
Principal performance area/recital 4
MTC 546 Analysis of 20th-Century Music 3
Large ensemble 1
Small ensemble/coaching 1
Academic 3
Area specialization/music elective(s) 3-5
15-17

Senior Year, Fall Semester

Weekly Student Convocation 0
Principal performance area 4
500-level elective in music history and literature 3
Large ensemble 1
Small ensemble/coaching 1
Academic 3
Area specialization/music elective(s) 3-5
15-17

Senior Year, Spring Semester

Weekly Student Convocation 0
Principal performance area 4

MHL elective 3
Large ensemble 1
Small ensemble/coaching 1
Academic 3
Area specialization/music elective(s) 3-5
15-17

Courses

Advertising Design

ADD 241 Advertising Principles 3 Y

The study and practice of the tenets common to award winning advertising.

ADD 242 Strategy in Advertising 3 Y

Process involved in developing advertisements from a concise marketing strategy.
PREREQ: ADD 241.

ADD 281 Advertising Design Methods 3 Y

Introduces design principles and production techniques, emphasizing visual, digital, and intellectual skills for the communication of ideas and their translation into print.
PREREQ: FND 113, 115 COREQ: ADD 241.

ADD 282 Advertising Design Skills and Processes 3 Y

Furtheres the use of Macintosh technology and software as design and production tools for print media.
PREREQ: ADD 281; COREQ: ADD 242.

ADD 341 Advertising Campaigns 3 Y

Recognition and implementation of the "big" idea as the basis of print advertising campaigns.
PREREQ: ADD 242.

ADD 342 Advertising Problem Solving 3 Y

Development of sound rationales for creation of advertising campaigns. Research, target audience identification, problem definition, and design.
PREREQ: ADD 341.

ADD 345 Digital Design 3 S

Advanced skills course in digital software and its applications.
PREREQ: ADD 242.

ADD 440 Ad Design Research Problems 3 Y

Individual development in specialized areas of advertising design.
PREREQ: ADD 441. R1, 6 credits maximum

ADD 441 Campaign Refinement 3 Y

The refinement of campaign concepts and their finished execution.
PREREQ: ADD 341.

ADD 442 Final Portfolio 3 Y

Final execution of campaigns, resumes, and self-promotion pieces.
PREREQ: ADD 441.

ADD 443 Television Concepts 3 Y

Creating and developing distinctive TV concepts from the marriage of words, pictures, and motion.
PREREQ: ADD 341.

ADD 444 TV Commercial Production 3 Y

Double Numbered with: ADD 644
Video techniques in the production of advertising commercials. Major emphasis on computer video editing. Introduction to camera work and sound.
PREREQ: ADD 443. R1, 3 credits maximum

ADD 453 Communication Arts/London 3 IR

Illustration and design through visits to studios, publishers, museums, and presentations with visiting professionals. Major design/illustration semester project. Offered only in London.

ADD 454 Communication Arts/London 3 IR

Illustration and design through visits to studios, publishers, museums, and presentations with visiting professionals. Major design/illustration semester project. Offered only in London.

ADD 540 Offset Printing 3 IR

A basic course covering the theory and practice of preparing camera-ready art for printing plate-making, and printing by offset lithography.
PREREQ: CMD 281..

Applied Music

AMC 525 Keyboard Skills 2 SI

Sight reading. Score reading. Transposition. Basic ensemble techniques. Two-piano and four-hand repertoire emphasized. Permission of instructor.

AMC 526 Technq of Accompaniment 2 SI

Case studies in collaborative repertoire with strings, winds, and voice. Ensemble techniques: leading, following, balance. Performance of orchestral material from score and reduction: opera, concertos.
PREREQ: AMC 525.

AMC 540 Opera Workshop 0-1 S

Primarily for students in voice. Experience in conducting, coaching, accompanying, acting, directing, and stage management in the preparation and presentation of operas. Scenes from various operas and one full-length opera.

AMC 545 Diction in Singing 2 Y

Basic phonetics (International Phonetic Alphabet). Enunciation in the foreign languages most frequently encountered in vocal and choral literature (Italian, French, German, and Latin). English diction in singing. Additional work required for graduate credit.

AMC 546 Diction in Singing 2 Y

Basic phonetics (International Phonetic Alphabet). Enunciation in the foreign languages most frequently encountered in vocal and choral literature (Italian, French, German, and Latin). English diction in singing. Additional work required for graduate credit.

Art

ART 80 Viscom Symposium 0-6 S

Visiting professionals examine and discuss major visual communication disciplines: advertising, illustration, and design.

ART 101 First Year Colloquium 0-3

A variety of art and design topics including all major areas in School of Art and Design. Lectures and discussions with visiting artists, alumni, and faculty; presentations on current issues in the field.

ART 105 Color & Light 3 Y

Physical and psychological aspects of light and color. Systems of color classification. Application to the artist's usage.

ART 111 20th to 21st Century Art in Context 3 Y

Introductory course investigates art from 1900 to present. Through lecture, discussion, and assignments the students learn to examine art within its historical, social, and cultural context.

ART 112 Special Topics in History of Art 3 Y

Selected themes and issues that connect art from the earliest times to the present. School of Art and Design student. R

ART 113 20th to 21st Century Design in Context 3 Y

Design from 1900 to present. Lectures, readings, discussion, and written assignments develop visual literacy, critical, and communication skills integral to understanding design within its historical, social, and cultural context.

ART 114 Special Topics in History of Design 3 Y

Selected themes and issues that connect design from the earliest time to the present. School of Art and Design student. R

ART 201 Historic Backgrounds to 1600 3 Y

Evolution of exterior and interior architecture and decorative arts in relation to environment and mode of life throughout history.

ART 202 Historic Backgrounds 1600-Pres 3 Y

Evolution of exterior and interior architecture and decorative arts in relation to environment, society, culture from 1600 to present.

ART 203 History of Modern Design 3 Y

Double Numbered with: ART 503
Survey of historical trends in the development of modern design reflecting both the real and the conceptual influences of society.

ART 205 History of Textiles 3 IR

Development of textile design and construction. Lecture and research.

ART 206 Survey of Decorative Ornament 3

History of decorative patterns, design terms used to define classic pattern types and motifs. Industrial and societal developments' impact on availability, aesthetics, and consumer use.

ART 207 History of Ceramics 3 SI

Forms of ceramic design and techniques that appear throughout history. Their relation to contemporary production.

ART 250 Filmmaking: Cinematic Modes 3 S

Topics will focus around codes and forms that work at the mainstream and borders of cinematic production. R

ART 251 Intro to Art Media 3 Y

Basic course in media aesthetics on the role of photographic and electronic media. Provides a context for discussion of contemporary art media.

ART 253 Survey of Film History 3 Y

Growth of film from its origin. Technical, economic, and social influence on cinema; development of film as an art.

ART 300 Selected Topics 1-3 SI

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ART 310 Picasso and the Modern Movement: Critical Approaches to Modern Art 3

Introduction to important periods in Picasso's life, key modern art movements and theories, and specific objects across a variety of media, and situate these within an appropriate historical and art historical context. This course will also use Picasso as a case study for examining various methodologies employed in analyzing the visual arts.

PREREQ: ART 111 OR ART 113 OR FIA 106.

ART 311 Aesthetics 3 IR

Major classical and contemporary issues in the philosophy of art including definitions or art, representation, style, signs and meaning, social theories of art and recent developments in art theory.

ART 314 History of the Bauhaus: Studies in Material Culture 3

An overview of the Bauhaus, its important personalities, and its contribution to the development of twentieth-century design and architecture.

PREREQ: ART 111 OR ART 113 OR FIA 106..

ART 316 Introduction to Visual Culture 3

Crosslisted with: CRS 316, TRM 316
Introduction to critical approaches that illuminate how modes of visual culture function as rhetoric, commerce, art, and ideological expression. Examines how institutional frameworks shape global image circulation.

ART 361 Studio Symposium 3 S

Double Numbered with: ART 561
Seminar discussions from artist's point of view on issues, theories, criticism in contemporary art. Visiting artists, critics, faculty participation. Reading and paper required. Individual research in conjunction with course expectations for students taking ART 561.

ART 406 Advanced Color & Light 3 SI

Lecture/studio. Principles of color and light. Recent color theories and systems applicable to visual arts.

ART 431 Art Nouveau Design and Architecture: Studies in Material Culture 4

Double Numbered with: ART 631

Introduction to the historical and social context that gave rise to Art Nouveau, its various manifestations, and the important practitioners and promoters of this movement in Europe and the United States.

ART 500 Selected Topics 1-3 SI

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

ART 502 History&Research/Applied Arts 1-18 SI**ART 503 History of Modern Design 3 Y**

Double Numbered with: ART 203

Survey of historical trends in the development of modern design reflecting both the real and the conceptual influences of society.

ART 505 Sources of Japanese Art 3 SI

Lecture/seminar. Influences affecting visual arts throughout history of Japan.

ART 511 Aesthetics,Advanced 3 SI

An examination of the main theories of art, classical and contemporary.

ART 561 Studio Symposium 3 S

Double Numbered with: ART 361

Seminar discussions from artist's point of view on issues, theories, criticism in contemporary art. Visiting artists, critics, faculty participation. Reading and paper required. Individual research in conjunction with course expectations for students taking ART 561.

ART 563 Art in America I 3 Y

Evolution of modernist trends in American art from 1890 to 1945. Some music and literary trends also featured.

ART 564 Art in America II 3 Y

Continuation of ART 563. Covers period in American art from 1945 to 1975. Music and literature also covered.
PREREQ: ART 563.

Art Education**AED 215 Foundations Art Education 3 S**

History and philosophy of art education and the growth of American education. Principles and practices of teaching visual arts from prekindergarten through adult education. Relationships among schools and cultural resources.

AED 470 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Student must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

AED 510 Special Problems in Art Ed 1-6 S

Individual study of particular problems in art education which are of pertinence to the student. Counseling and consent of the instructor determine the area of study.

AED 521 Art-Centered Art Curric'M 3 IR

Ten approaches to writing art curricula: referential, chronological, stylistic, topical, special interest, specific artist, collection-related, integrating, multidisciplinary, enrichment. Development of classroom material for specific levels or particular audiences. For senior and graduate art majors.

AED 522 Art for Special Populations 3 IR

Effective personal communication through art. Choose and define a special population; expmine and generate appropriate research; develop adaptive strategies, curriculum, and evaluation procedures appropriate for classroom use. For senior and graduate art majors.

AED 524 Visual Language 3 IR

Visual language as catalyst for interdisciplinary experiences in art, math, science, and social studies. Visualization, determination of essential features, methods of teaching surrogate and relational form. Curriculum for specific grades or particular audiences. For senior and graduate art majors.

AED 525 Exploration & Meaning in Art 3 IR

Using phenomenological encounter techniques, symbol interpretation, and consideration of cultural context, students learn to argue a point of view and develop methods of critical judgment in their students. For senior and graduate art majors

Art Photography**APH 242 Art Photography Intro II 3 S**

In-depth study of color photographic techniques. Processing, printing, and historical and contemporary models.
PREREQ: APH 241.

APH 243 Digital Imaging for Art Photo 3 S

Art Photography students explore the applications of digital and electronic photography as an art form. Using their own scanned photographs and digital camera images, students will utilize the computer to construct new art work.
PREREQ: APH 241.

APH 261 Art Photography, Introduction 3 S

Introduction to analog and digital photography, beginning with 35 mm camera basics, film processing and printing. Correlating digital processes (basic film scanning, etc.) will be taught alongside their analog counterparts.

APH 262 Art Photography Introduction II 3 S

In-depth study of analog and digital photographic techniques. Printing and output from digital and film sources, color control and calibration. use of flash and simple lighting techniques.

APH 263 Art Photography:Advanced Digital Imaging 3 Y

Designed to give students the skills to employ the latest techniques in digital imaging. Topics covered include: digital workflow, advanced color corrections, compositing techniques, color management and color profiling.
PREREQ: APH 261, 262.

APH 340 Topics in Art Photography 3 S

Topics selected before registration by the department and specified in the time schedule.
PREREQ: APH 241, 242. R

APH 341 Art Photography Intermediate 3 Y

Development of a personal style and an extended body of work. Use of contemporary and historical models to explore technical, critical, and aesthetic issues.
PREREQ: APH 241, 242.

APH 342 Art Photography Intermediate II 3 Y

Continuation of APH 341. Presentations, issues, and assignments based on the work of contemporary and historical photographic artists to explore the visual issues raised by these artists.
PREREQ: APH 341.

APH 361 Lighting for Photography 3 S

Lighting techniques for the photography studio and on location. Students use digital, medium and large format cameras on group and individual assignments. Critical study of the interaction between fashion, cinema and fine art photography.
PREREQ: APH 261, AND APH 262.

APH 362 Art Photography Junior Seminar 3 Y

Wide range of contemporary photographic practices. Students are encouraged to experiment with assignments that address specific conceptual issues, such as how artists formulate their self-identity, inspiration and attitude.
PREREQ: APH 261, APH 262, APH 361.

APH 461 Art Photography:BFA Senior Seminar 3 Y

Students propose and develop their own projects which will be reviewed in individual and group critiques. Working closely with faculty, students, utilize technical, conceptual, and visual tools to evaluate and expand their own work. Preq: APH 362
PREREQ: APH 362..

APH 462 Art Photography: BFA Exhibition and Portfolio 3 Y

Students refine their own projects which will be reviewed in individual and group critiques. Development of skills to create a professional quality exhibition, portfolio, and artist presentation.
PREREQ: APH 461.

APH 561 Art Photography: Contemporary Art and Photography 3 Y

Contemporary artists working with photographic images are studied through slides, readings, lectures, and discussions.

APH 562 Art Photography: Contemporary Critical & Theoretical Texts on Art & Photography 3 Y

Recent and contemporary critical theories and applications studied through readings, lectures, and discussion. Emphasis on student research papers.
PREREQ: APH 561.

APH 563 Art Photography: Non-Traditional Modes 3 Y

Exploring the possibilities and reasons for producing work outside the parameters of traditional practice, looking at artists whose work co-opts, challenges and eschews the gallery system, using those artists as models for their own production.

APH 564 Image/Sequence: Photo Book 3 Y

Theoretical and critical discussion of photographs in series, sequences and books. Software for editing and layout introduced to produce photo-based artist books. Specific attention paid to how the photo-book expands the meaning of individual images.
PREREQ: APH 261 AND APH 262 AND APH 263.

APH 565 Art Photography: Performance Art 3 Y

This course introduces the concepts, techniques, and variations of performance art. Special emphasis on performances made expressly for the camera will be considered. Many examples of performance art are analyzed.
PREREQ: APH 261, APH 262.

APH 566 Art Photography: Photography and Cinema 3 Y

Students explore the interplay between contemporary photography and cinema. By constructing sets, scouting locations, studying images and films, and appropriating cinematic language, students will create photographic works influenced by moving images.
PREREQ: APH 261 AND APH 262.

Art Video

VID 211 Video Sketchbook 3 Y

A medium for perceptual and conceptual development. Most work done exclusively with camcorders. Editing equipment and instruction is available for projects requiring post production.

VID 212 Intro Art Video 3 Y

A medium for making art. Video works by professional artists are studied, readings are required, specific projects are assigned. Production and post-production skills are refined.
PREREQ: VID 211.

VID 310 Studies in Art Video 3 Y

Relationship with traditional studio arts, music, cinema, television, computers, telecommunications, and networks. Art video recordings are used to focus and structure explorations of the contemporary media environment. R

VID 311 Intermediate Art Video 3 Y

Use as a medium for making art. Production and post-production skills are refined. Perceptual and conceptual development informed by contemporary art history and theory.
PREREQ: VID 212.

VID 312 Intermediate Art Video II 3 Y

Use as a medium for making art. Production and post-production skills are refined. Perceptual and conceptual development informed by contemporary art history and theory.
PREREQ: VID 311.

VID 313 Advanced Post-Production Techniques 3 Y

Double Numbered with: VID 613
A workshop in audio and video post-production techniques. Specific exercises that structure learning in audio/video relationships. Advanced audio/video techniques are explored. Additional work is required of graduate students. VID 613 is required of Art Video M.F.A. students.
PREREQ: VID 212.

VID 411 Advanced Art Video 3 Y

Use of video to produce art informed by contemporary art history and theory. Students produce tapes of significant depth demonstrating technical skills sufficient to support their aesthetic strategies.
PREREQ: VID 312.

VID 412 Art Video:Thesis Project 3 Y

Production of a thesis project, most frequently a suite of related tapes, including written conceptual/theoretical analysis.
PREREQ: VID 411.

VID 510 Video Art History 3 Y

Video art history from the 1960s including the fluxus and art and technology movements, early performance, image processing, installation, and socio-political explorations.

Bassoon

BSN 160 Bassoon/Non Music Majors 1-4 S
For non-music students.

BSN 165 Bassoon/Music Majors 1-4 S
For music students.

BSN 166 Bassoon/Music Majors 1-4 S
For music students.

BSN 260 Bassoon/Non Music Majors 1-4 S
For non-music students.

BSN 265 Bassoon/Music Majors 1-4 S
For music students.

BSN 266 Bassoon/Music Majors 1-4 S
For music students.

BSN 360 Bassoon/Non Music Majors 1-4 S
For non-music students.

BSN 365 Bassoon/Music Majors 1-4 S
For music students.

BSN 366 Bassoon/Music Majors 1-4 S
For music students.

BSN 369 **Bassoon/Perform Honors 1-4 S**

BSN 460 **Bassoon/Non Music Majors 1-4 S**
For non-music students.

BSN 465 **Bassoon/Music Majors 1-4 S**
For music students.

BSN 466 **Bassoon/Music Majors 1-4 S**
For music students.

BSN 469 **Bassoon/Perform Honors 1-4 S**

BSN 560 **Bassoon/Non Music Majors 1-4 S**
For non-music students.

BSN 565 **Bassoon/Music Majors 1-4 S**
For music students.

BSN 566 **Bassoon/Music Majors 1-4 S**
For music students.

Ceramics

CER 220 **Raku Workshop 3 S**
Use of the potter's wheel and production of various basic forms. Raku decorating and glazing techniques. R

CER 221 **Introduction to Ceramics 3 S**
Techniques and materials. Basic hand building. Development of personal direction.

CER 222 **Introduction to Ceramics 3 S**
Continuation of CER 221. Use of potter's wheel. Experimentation with glazes and other methods of decoration. Personal direction encouraged.
PREREQ: CER 221.

CER 223 **Intro Ceramic Wheel Throwing 3 S**
Potter's wheel as a creative tool. Basic techniques and wheel-thrown forms. Experimentation with decorating techniques.

CER 224 **Intro Ceramic Wheel Throwing 3 S**
Potter's wheel as a creative tool. Basic techniques and wheel-thrown forms. Experimentation with decorating techniques.

CER 321 **Intermediate Ceramic Sculpture 3 S**
Creating unique ceramic forms and developing techniques and considerations. Experimentation with forms, materials, and sculptural concepts.
PREREQ: CER 221, 222.

CER 322 **Intermediate Ceramic Sculpture 3 S**
Creating unique ceramic forms and developing techniques and considerations. Experimentation with forms, materials, and sculptural concepts.
PREREQ: CER 221, 222.

CER 323 **Intermediate Wheel Throwing 3 S**
Techniques and concepts related to the design and production of multiples of a form using the potter's wheel.
PREREQ: CER 223, 224.

CER 324 **Intermediate Wheel Throwing 3 S**

Techniques and concepts related to the design and production of multiples of a form using the potter's wheel.
PREREQ: CER 223, 224.

CER 327 **Clay & Glaze Technology 3 O**
Plaster and mold making, formulation and mixing of glazes and clay bodies. Maintenance of kilns and other studio equipment. Lecture and studio. Term paper required.

CER 328 **Clay & Glaze Technology 3 O**
Plaster and mold making, formulation and mixing of glazes and clay bodies. Maintenance of kilns and other studio equipment. Lecture and studio. Term paper required.

CER 421 **Advanced Ceramic Sculpture 3 S**
Techniques and concepts in the sculptural possibilities of ceramics. Students complete several projects to develop related concepts and techniques.
PREREQ: CER 321, 322.

CER 422 **Advanced Ceramic Sculpture 3 S**
Techniques and concepts in the sculptural possibilities of ceramics. Students complete several projects to develop related concepts and techniques.
PREREQ: CER 321, 322.

CER 423 **Advanced Wheel Throwing 3 S**
Continuation of CER 323,324. Realistic shop situation in which records of time, kiln space, and cost of materials are kept. Work on several projects to strengthen techniques and further develop as an artist.
PREREQ: CER 323, 324.

CER 424 **Advanced Wheel Throwing 3 S**
Continuation of CER 323,324. Realistic shop situation in which records of time, kiln space, and cost of materials are kept. Work on several projects to strengthen techniques and further develop as an artist.
PREREQ: CER 323, 324.

CER 427 **Advanced Ceramic Techniques 3 O**
Application at a professional level of information acquired in CER 327,328.
PREREQ: CER 327, 328.

CER 428 **Advanced Ceramic Techniques 3 O**
Application at a professional level of information acquired in CER 327,328.
PREREQ: CER 327, 328.

CER 520 **Raku Workshop 3 S**
Use of the Potter's wheel and production of various basic forms. Raku decorating and glazing techniques. R

CER 524 **Ceramic Research 1-6 S**
Advanced research.
PREREQ: CER 423,424.

CER 527 **Ceramic Technology Research 1-6 O**

Varied technical and chemical problems that are the daily concerns of the studio ceram-ist. Lectures, research, shop, laboratory practices, kiln construction, and ceramic studio maintenance.
PREREQ: CER 428.

CER 528 **Ceramic Technology Research 1-6 O**

Varied technical and chemical problems that are the daily concerns of the studio ceram-ist. Lectures, research, shop, laboratory practices, kiln construction, and ceramic studio maintenance.
PREREQ: CER 428.

CER 529 **Ceramics Workshop 1-6 SI**
Working and experimenting with clay as a medium for drawing, painting, and sculpting. Lectures, demonstrations, studio work, and student projects. Open to all students in all colleges.

Clarinet

CLR 140 **Clarinet/Non Music Majors 1-4 S**
For non-music students.

CLR 145 **Clarinet/Music Majors 1-4 S**
For music students.

CLR 146 **Clarinet/Music Majors 1-4 S**
For music students.

CLR 240 **Clarinet/Non Music Majors 1-4 S**
For non-music students.

CLR 245 **Clarinet/Music Majors 1-4 S**
For music students.

CLR 246 **Clarinet/Music Majors 1-4 S**
For music students.

CLR 340 **Clarinet/Non Music Majors 1-4 S**
For non-music students.

CLR 345 **Clarinet/Music Majors 1-4 S**
For music students.

CLR 346 **Clarinet/Music Majors 1-4 S**
For music students.

CLR 349 **Clarinet/Perform Honors 1-4 S**

CLR 440 **Clarinet/Non Music Majors 1-4 S**
For non-music students.

CLR 445 **Clarinet/Music Majors 1-4 S**
For music students.

CLR 446 **Clarinet/Music Majors 1-4 S**
For music students.

CLR 449 **Clarinet/Perform Honors 1-4 S**

CLR 540 **Clarinet/Non Music Majors 1-4 S**
For non-music students.

CLR 545 **Clarinet/Music Majors 1-4 S**
For music students.

CLR 546 **Clarinet/Music Majors 1-4 S**
For music students.

Communication And Rhetorical Studies

CRS 181 Concepts & Perspectives in Communication Studies 3 Y

Overview of everyday interaction and extent to which content and forms of communication shape social realities. Broad introduction to field of communication.

CRS 183 Concepts and Perspectives in Rhetorical Studies 3 Y

History of rhetorical studies from classical antiquity to contemporary times. Explores conceptualizations and understandings which serve as a method of recognizing, analyzing, and evaluating persuasive impulses.

CRS 225 Public Advocacy 3 S

Principles, practice, and criticism of informative, persuasive, and ceremonial speeches. Enhances student capacity to respond appropriately to a variety of speaking situations.

CRS 270 Experience Credit 1-6 SI

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing.

CRS 284 Discourse and Society 3 Y

The symbolic and linguistic construction of discourses and the relation between our discourses and the construction of our social, cultural, and political words.

CRS 287 Foundations of Inquiry in Human Communication 3 Y

Introduction to the various issues, arguments, positions, and concerns that frame the research methods and techniques that guide the study of communications.

CRS 290 Independent Study 1-6 SI

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department.

CRS 313 Nonverbal Communication 3 Y

Nonverbal message systems in interpersonal communication. Factors affecting the nature and quality of interaction: spatial, temporal, gestural, artifactual, tactile, and cultural.

CRS 314 Performance Studies 3 IR

Performance as a political project that privileges the body as a site of knowledge. The politics, implications, and possibilities of personal narratives.

CRS 315 Frontiers of Communications 3 Y

Double Numbered with: CRS 615
Focus given to communication demands from new technologies. Technology as a form of rhetoric, emphasizing the role of speech communication in the future including socio-cultural implications of technology. Additional work required of graduate students.

CRS 316 Introduction to Visual Culture 3

Crosslisted with: ART 316, TRM 316
Introduction to critical approaches that illuminate how modes of visual culture function as rhetoric, commerce, art, and ideological expression. Examines how institutional frameworks shape global image circulation.

CRS 325 Presentational Speaking 3 S

Crosslisted with: CAS 325
Conceptual and practical dimensions of formal presentations in organizational settings. Analysis, adaptation, strategic arrangement and development of ideas, verbal and nonverbal presentational skills.

CRS 327 Speechwriting 3 Y

Double Numbered with: CRS 627
Principles and practices of writing ceremonial and persuasive speeches for clients.
PREREQ: CRS 225.

CRS 328 Dialogue and Experience 3 SI

Introduction to the notion of dialogue as a way of embodying the world. It highlights the various concerns, issues, and ideas that surround the evolution of dialogue.

CRS 331 Interpersonal Communication 3 Y

Application of communication theory to a wide variety of social situations. Assessing communication competence, problem solving, and relationship management.

CRS 333 Small Group Communication 3 Y

Group communication as a decision making process. Problem solving. Critical and creative thinking, presentational skills. Designed to improve decision quality through discussion skills and the strategic application of group decision theories and techniques.

CRS 334 Introduction to Argumentation 3 Y

Theoretical grounding for an argument-field approach. Includes critical understanding and use of evidence and reasoning in argument. Brief writing, cross-examination, argument construction and organization, issues analysis, and refutation and rebuttal.

CRS 335 Leadership/Stewardship Communication 3 Y

Leader-follower relations as they are constituted communicatively in partnerships. Communication competencies emphasized include empowerment, innovation, ethics, conflict, and influence.

CRS 336 Communication and Organizational Diversity 3

Diversity issues in organizations. Self reflection on assumptions about difference. Organizations and differences as communicatively constituted.
PREREQ: CRS 181.

CRS 338 Communication in Organizations 3 Y

Principles and practices of organizational communication, including methods of assessing communication practices. Various communication perspectives are applied to case studies and organizational activities.
PREREQ: CRS 333.

CRS 339 Communication, Space and Design 3 IR

Examination of spaces and designs as rhetorical and communication phenomena. How we organize space and, in turn, how the organization of our spaces shapes how we interact, organize, and relate to others and the world.

CRS 345 Topics in Debate 3 Y

Examines the influence of debates in political contexts. May examine presidential, legislative, judicial or public forum debates and influence of debating in political communication.

CRS 355 Political Communication 3 Y

Investigates the relationship between communication and politics. Highlights communication-related issues involved in political processes and focuses on the extent to which communication is an essential aspect of political systems.

CRS 360 Communication and Rhetorical Studies in Perspective 3 Y

Development of theories of communication and rhetoric that enhance the understanding of their impact on human behavior. R1, 9 credits maximum

CRS 414 Communication & Gender 3 E

Crosslisted with: WGS 414
Exploration of assumptions under-lying different approaches to gender and communication. Gender and power implications of understanding communication as socially constructing identity and societal structures.

CRS 425 Advanced Public Speaking 3 Y

Students create and deliver manuscript speeches on subjects of social, political, and philosophical interest. Emphasizes rhetorical style and concepts of eloquence.
PREREQ: CRS 225.

CRS 426 Persuasion 3 Y

Contemporary behaviorist, cognitive, and language-based theories of persuasion. Modes of inquiry used to investigate persuasion. The behavioral compared and contrasted with the rhetorical perspective.

CRS 430 Intercultural Communication 3 Y

Double Numbered with: CRS 630
Principles and applications. Approaches and issues pertinent to effective communication across cultures and in multicultural societies. Verbal and nonverbal patterns. Culture shock.

CRS 435 Interviewing 3 S

Dyadic communication principles. Adaptation of interpersonal communication to interviewing situations: in-depth informational, resume-based employment, and problem solving. Analysis of student-designed survey questionnaires. Normal and stressful interpersonal relationships.

CRS 436 Feminist Rhetoric(s) 3

Crosslisted with: WGS 436, WRT 436; Double Numbered with: CRS 636

Feminist rhetoric from both a historical and global context, utilizing both primary and secondary readings in order to gain a sense of breadth and depth in the field of feminist rhetoric. Additional work required of graduate students.

CRS 438 Organizational Simulation 3 SI

Students participate in a simulated organization; produce and market communication-related products and services; observe and analyze communication processes. PREREQ: CRS 338. R1, 6 credits maximum

CRS 444 Senior Capstone Seminar 3 Y

A culminating research project on a communication and rhetorical concept, object, or phenomenon.

CRS 451 Visual Culture Past and Present: Gender, Religion and Politics 3 S

Crosslisted with: HST 451, REL 451, WGS 451

Offered only in Florence. Contemporary visual culture; its representation of gender, religion, and politics and the origins of that representation in a pictorial language first codified in Italy and Europe between circa 1450 and 1650.

CRS 455 Rhetorical Criticism 3 Y

Different perspectives of rhetorical criticism. Explicating the assumptions underlying different approaches to rhetorical criticism. Students learn and apply contemporary critical methods in the study of discursive practices.

CRS 456 Empirical Methods of Communication Research 3 Y

Social scientific methods that underlie communication theory. Both quantitative and qualitative methods, including experimental design and field study techniques.

CRS 458 Applied Communication Research 3 Y

Applied research methods and techniques used in the study of communication and culture within human organizations. Requires conducting an applied study.

CRS 466 Ethics in Human Communication 3 Y

Examination of ethical constraints, dilemmas, and boundaries in various communication processes.

CRS 470 Experience Credit 1-6 SI

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing.

CRS 483 Rhetoric of Film 3 Y

Double Numbered with: CRS 683

Examination of how popular films and documentaries function rhetorically to reflect and construct social and political change.

CRS 490 Independent Study 1-6 SI

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department.

CRS 499 Honors Thesis 3-6 SI

CRS 514 Language & Meaning 3 IR

Analysis of language and social interaction in various contexts; language and social identity.

CRS 531 Advances in Interpersonal Communication 3 IR

Introduction to contemporary theories and research in the field of interpersonal communications; array of theoretical models and research exemplars. PREREQ: CRS 331.

CRS 532 Family Communication 3 IR

Examination of communication processes which constitute and reflect family functioning. Power and conflict, predictable and unpredictable stress, paradoxes and double binds, family life cycle, and communication competence. Permission of Instructor.

CRS 535 Communication & Community 3 IR

Examines current concepts of interpersonal communication and their historical development. Demonstrates how interpersonal communication influences and is influenced by community contexts. PREREQ: CRS 331..

CRS 538 Advances in Organizational Speech Communication 3 IR

Concepts and theoretical perspectives. Organizational dynamics; communication issues and problems. Permission of Instructor. PREREQ: CRS 338.

CRS 545 Issues in Argumentation 3 IR

Emerging perspectives of the field theory of argument, constructivist approaches, cognitive approaches, against traditional models of argumentation. Permission of Instructor. PREREQ: CRS 245.

CRS 546 Seminar in Legal Communication 3 IR

Legal communication as it defines a field-dependent context for argumentation. Variables which inform legal argument from the field of communication including nonverbal, language, role, and environmental influences. Permission of instructor

CRS 551 History of British Public Address 3 IR

Public address as an influence in the political, legal, social, and religious history of England. Permission of instructor

CRS 552 History of Rhetorical Theory 3 IR

Overview of a variety of theories, from ancient to contemporary, and the factors that affect concepts of rhetoric in the culture of Western thought. Permission of instructor

CRS 553 American Public Address 3 IR

Public address as an influence in the political, social, legal, and religious history of America. Permission of instructor

CRS 567 Rhetoric and Philosophy 3 IR

Examines the quarrel between philosophy and rhetoric and the way it has affected the development of Western thought. Permission of instructor

CRS 568 Rhetoric of Social Change 3 IR

Through a critical examination of public discourses, the student's critical understanding of the scope and function of rhetoric will be enhanced. Permission of instructor

Communication Design

CMD 251 Intro Communication Design I 3 Y

Survey of concepts, methods, techniques, and media used to solve graphic design problems.

CMD 252 Intro Communication Design II 3 Y

Continuation of CMD 251. Emphasizes typography, layout, and three-dimensional design projects. PREREQ: CMD 251, 281.

CMD 270 Experience Credit 1-6 IR

Participation in a discipline or subject related experience. Student must be evaluated by written or oral reports or an examination. Permission in advance with the consent of the department chairperson, instructor, and dean. Limited to those in good academic standing. R

CMD 281 Design Methods 3 Y

Introduces design principles and production techniques, emphasizing visual, manual, and intellectual skills for communication of ideas and their translation through traditional methods into print.

CMD 282 Design Skills & Processes 3 Y

Introduces Macintosh technology and software programs as design and production tools for print media. Application of tools and software to create solutions to traditional visual communications' problems. PREREQ: CMD 281.

CMD 351 Problem Solving Strategies 3 Y

Thinking, creativity, and communication theory as applied to design problem solving. Students encouraged to explore and develop their own personal style of thinking and overcome obstacles inhibiting creativity. PREREQ: CMD 252, 282.

CMD 352 Design Project Management 3 Y

Research, planning, development, and art direction of complex, multifaceted projects. PREREQ: CMD 252, 282, 351, 450.

CMD 450 Communication Design Problems 1-6 S

Individual instruction in various areas of editorial design. In mixed-level groups, students develop projects according to individual interests and abilities. Strategic planning based on research and marketing principles. CMD 450 students also develop writing and presentation skills.
PREREQ: CMD 252, 282. R

CMD 451 Design Research 3 Y

Research as background for solving communication design problems. Exercises and projects simulate actual professional experiences.
PREREQ: CMD 351, 352, 450.

CMD 452 Portfolio & Practice 3 Y

Career planning and portfolio preparation for the designer.
PREREQ: CMD 351, 352, 450.

CMD 550 Communication Design Problems 1-6 S

Individual instruction in various areas of editorial design. In mixed-level groups, students develop projects according to individual interests and abilities. Strategic planning based on research and marketing principles. CMD 450 students also develop writing and presentation skills. R

Computer Art

CAR 121 Introduction to 3D Computer Animation 3 S

The first course in this three course series focuses on concepts, aesthetics, and practice of 3D computer graphics. An introduction to 3D computer modeling, lighting and shading.

CAR 131 Introduction to Multimedia 3 S

The fundamentals for making art with computers in consideration of time and interactivity. The fundamentals of using programming and software applications for multimedia and the internet.

CAR 132 Procedural Composition 3

The fundamental processes of procedural thinking and programming to create digital-based visuals. Techniques will be implemented in time-based and interactive art projects.

CAR 221 Intermediate 3D Computer Animation 3 Y

The second course in this three course series focuses on concepts, aesthetics, and practice of 3D computer animation. An introduction to animating characters, environments and special effects using 3D computer graphics.
PREREQ: CAR 121.

CAR 233 2D Computer Gaming 3 Y

Introduction to various software techniques and programming concepts that are central to creating computer games in 2D environments. Experimental practices and critical theory associated with this field will supplement the practical lessons.

CAR 240 Multimedia Programming 3

Techniques for creating procedural, data-driven, and interactive visuals, as well as cultural issues regarding the nature of online communication. May not be repeated for credit.
PREREQ: CAR 132.

CAR 321 Advanced 3D Computer Animation 3 Y

The third course in this three course series focuses on concepts, aesthetics, and practice of 3D computer animation production. Students will produce a single, complete 3D animation, from pre-production to post-production.
PREREQ: CAR 121, 221.

CAR 340 Computer Gaming 3

Techniques for creating computer games. Explores gaming theory, strategy, and aesthetics. May not be repeated for credit.
PREREQ: CAR 240.

CAR 430 Computer Art Seminar 3

Students will propose and complete a major individual or collaborative studio project. Junior or senior standing. Open only to CAR majors.
PREREQ: CAR 231, 232. R1, 9 credits maximum

CAR 432 Senior Project 3 Y

To focus the best creative and intellectual resources in the realization of the senior project and portfolio. Pursue areas of personal interest and to explore new ideas in the realization of their artistic goals.
PREREQ: CAR 231, 331.

CAR 530 Special Topics in Computer Art 3-12 IR

Various topics in computer graphics are explored through research, creative activity, and theoretical discussion. Topics address historical as well as contemporary issues that bridge art and technology. R

Conducting

CTG 545 Basic Conducting 2 S

Baton technique: beat patterns, tempo indication, preparation and release, style, dynamics, cueing and eye contact.

CTG 546 Intermediate Conducting Choral 2

Hand techniques. Vocal music techniques. Score analysis. Warm-ups. Choral literature. Elements of ensemble performance.
PREREQ: CTG 545.

CTG 548 Intermediate Conducting, Instrumental 2 Y

Hand techniques. Instrumental music techniques. Score analysis. Warm-ups. Instrumental literature.
PREREQ: CTG 545.

Design

DES 121 Design Odyssey 3

A gateway experience exploring the nature of design creativity and multi-disciplinary problem solving.

Design/Technical Theater

DRD 111 Media, Methods, and Materials in Theatrical Design 3 Y

Media, materials, and techniques employed in design for theatrical production. Required of all students planning further work in design and technical theater.
PREREQ: DRD 140.

DRD 112 Drafting for the Theater 3

The theories and practices of drafting for theatrical production. Graphic solutions, focusing on the communication of design ideas through the proper use of manual drafting instruments.

DRD 115 Introduction to Theater Production I 2

Lecture, reading, and discussion of major aspects of theater production. Participation in construction, running, and front-of-house crews for Drama Department productions. Required of Acting and Musical Theater majors.

DRD 116 Introduction to Theater Production II 2

Continuation of DRD 115.

DRD 140 Introduction to Theater Crafts I 1-3 Y

Class format combines lecture and experiential/studio assignments in the study of scenery, props, scenic art, costumes, lighting and, sound. Required of Design/Technical Theater and Stage Management majors.

DRD 141 Introduction to Design for the Theatre 3 Y

First semester: set, costume, and lighting design using drawings, perspective, costume sketching, and lighting techniques. Second semester: continuing examination of the design process, focusing on specific plays. Must be taken in sequence.

DRD 142 Introduction to Design for the Theatre 3 Y

First semester: set, costume, and lighting design using drawings, perspective, costume sketching, and lighting techniques. Second semester: continuing examination of the design process, focusing on specific plays. Must be taken in sequence.

DRD 240 Introduction to Theater Crafts II 1-3 Y

Continuation of DRD 140.

DRD 251 Introduction to Stage Management 3

Combined classroom and practicum and investigation of the stage management system. Student will be assigned as an assistant stage manager on an SU Drama production while discussing the elements of stage management in the classroom.

DRD 270 Experience Credit 1-6 IR

Participation in a discipline or subject related experience. Student must be evaluated by written or oral reports or an examination. Permission in advance with the consent of the department chairperson, instructor, and dean. Limited to those in good academic standing. R

DRD 301 Fundamentals of Theater Design 3

Basic theory and techniques of design for the stage. Includes scenery, costumes and lights, Open to non-design/tech majors. Permission of instructor required
PREREQ: DRD 115, DRD 116.

DRD 311 Scene Design I 3 Y

Exploration of the art, history and practice of scenic design for theater. The ideas and concepts of scenic development are investigated through research and practical experience. Permission of instructor.
PREREQ: DRD 112, 141 AND 142.

DRD 312 Scene Design II 3 Y

Continued exploration of the history and practice of scenic design for the theater. Design projects will include topics such as advanced script analysis, experimental and alternative spaces and diverse entertainment productions.
PREREQ: DRD 311/611.

DRD 313 CAD for the Theater 3

Introduction to the theories and practices of computer aided drafting (CAD) for theatrical production. Two dimensional graphic solutions utilizing AutoCad are the primary focus of the course, with other computer modeling and rendering programs introduced.
PREREQ: DRD 112.

DRD 317 Pract./Scene Painting 2 SI

Problems and practice in scene painting, supervised by Syracuse Stage professional staff.
PREREQ: DRD 311/611. R

DRD 318 Pract./Stage Properties 2 Y

Problems and practices in the procuring or design and construction of stage properties, supervised by Syracuse Stage professional staff.
PREREQ: DRD 140.

DRD 321 Theatrical Costume Design I 3 Y

Role of the costume designer in the production process. Studio problems in design of costumes for theatrical productions of plays. Permission of instructor.
PREREQ: DRD 142.

DRD 322 Theatrical Costume Design II 3 Y

Continuation of DRD 321/621. Role of the costume designer in the production process. Studio problems in design of costumes for theatrical productions of plays. Permission of instructor.
PREREQ: DRD 321/621.

DRD 327 Pract. in Costume 2 SI

Problems and practice in design and construction of costumes, supervised by Syracuse Stage professional staff.
PREREQ: DRD 140. R

DRD 331 Stage Lighting I 3 Y

Double Numbered with: DRD 631
Elementary physics of lighting and electricity. Lighting instruments and controls. Function of theatrical lighting. Outstanding lighting designs of past and current productions. Students design complete light plots.

DRD 332 Stage Lighting II 3 Y

Double Numbered with: DRD 632
Continuation of DRD 631/331. Required of all majors in design/technical theater, and graduate students in stage design.
PREREQ: DRD 331/631.

DRD 337 Pract./Stage Lighting 2 Y

Problems and practices in stage lighting, supervised by Syracuse Stage professional staff.
PREREQ: DRD 140 OR 141, 331.

DRD 338 Pract./Theatre Sound 2 SI

Problems and practice in theater sound, supervised by Syracuse Stage professional staff.
PREREQ: DRD 140 OR 141.

DRD 340 Stage Management Rehearsal Techniques 2 Y

Double Numbered with: DRD 640
Exploration of techniques used by stage manager in rehearsal process. Topics include technical script analysis, blocking, prompting, scheduling, and effective use of assistants. Additional work required of graduate students.
PREREQ: DRD 251.

DRD 411 Scene Design III 3 Y

Double Numbered with: DRD 711
Individual problems in scene design. At least three completely designed plays prepared as if for actual production.
PREREQ: DRD 312/612.

DRD 412 Advanced Techniques in Theatrical Rendering 3

Continued study in a variety of graphic techniques used to illustrate theatrical designs through exploring an expanded range of media and materials.
PREREQ: DRD 111, 311, 321.. R1, 6 credits maximum

DRD 421 Theatr'l Cost. Des. III 3 Y

Double Numbered with: DRD 721
Advanced studio problems in theatrical costume design.
PREREQ: DRD 322/622.

DRD 431 Stage Lighting III 3

Continuation of the principles and practices of modern stage lighting as an art form. Advanced theories will be investigated involving multi-scene, repertory, thrust and arena lighting design.
PREREQ: DRD 332.

DRD 441 Adv.Stgerft./Th.Tech. 3 Y

Permission of Instructor.

DRD 442 Adv.Stgerft./Th.Tech 3 Y

Permission of Instructor.

DRD 450 Stage Management: Performance Techniques 3 Y

Exploration of techniques used by stage managers in the performance process. Topics include organizing rehearsals, running technical and dress rehearsals, calling shows, managing and maintaining performances.

DRD 460 Stage Management for Production 1-4 S

Assigned work as a stage manager for Drama Department production. Exploration of all aspects of stage management in actual production. R1, 10 credits maximum

DRD 470 Experience Credit 1-6 IR

Participation in a discipline or subject related experience. Student must be evaluated by written or oral reports or an examination. Permission in advance with the consent of the department chairperson, instructor, and dean. Limited to those in good academic standing. R

DRD 492 Production Management 3 Y

Double Numbered with: DRD 692
The role of the production manager in the process of producing a theatrical season and administering a production department. Student will develop a mock seasonal production plan as a final project.
PREREQ: DRD 251, 340, 450.

DRD 501 Design for Directors 3 Y

Basic theory and techniques of design for the stage. Communicating ideas to designers and vice versa. Required of all students in directing.
PREREQ: DRA 355, 356, 515, 531.

DRD 541 Prjets/Tech'L Practice 3 S

Solution of advanced problems in all phases of technical practice, fitted to the needs of the individual student as far as possible. Permission of instructor.

DRD 542 Prjets/Tech'L Practice 3 SI

Continuation of DRD 541. Permission of department.
PREREQ: DRD 541.

DRD 599 Internship in Theatrical Design, Technology, or Management 3-9 SI

Qualified senior and graduate students are assigned to staff positions with Syracuse Stage for semester or year in areas of students' individual professional training and goals.

Double Bass

DBS 140 Double Bass/Non Mus Major 1-4 S

For non-music students.

DBS 145 Double Bass/Music Majors 1-4 S

For music students.

DBS 146 Double Bass/Music Majors 1-4 S

For music students.

DBS 240 Double Bass/Non Mus Major 1-4 S

For non-music students.

DBS 245 Double Bass/Music Majors 1-4 S

For music students.

DBS 246 Double Bass/Music Majors 1-4 S

For music students.

DBS 340 Double Bass/Non Mus Major 1-4 S

For non-music students.

DBS 345 Double Bass/Music Majors 1-4 S

For music students.

DBS 346 **Double Bass/Music Majors 1-4 S**
For music students.

DBS 349 **Double Bass/Perform Honor 1-4 S**

DBS 440 **Double Bass/Non Mus Major 1-4 S**
For non-music students.

DBS 445 **Double Bass/Music Majors 1-4 S**
For music students.

DBS 446 **Double Bass/Music Majors 1-4 S**
For music students.

DBS 449 **Double Bass/Perform Honor 1-4 S**

DBS 540 **Double Bass/Non Mus Major 1-4 S**
For non-music students.

DBS 545 **Double Bass/Music Majors 1-4 S**
For music students.

DBS 546 **Double Bass/Music Majors 1-4 S**
For music students.

Drama

DRA 90 **Theatre Lab 0-6 S**
R

DRA 105 **Intro Acting/Non-Majors 3 S**
Basic group exercises and improvisations in vocal and physical relaxation, concentration, and dramatic action.

DRA 106 **Scene Study for Non-Majors 3 IR**
Workshop in scene study to develop creative responsiveness to the play script.

DRA 115 **Intro to Theater 3 Y**
Lecture, reading, and discussion of basic principles of play analysis and mise-en-scène. Application of principles to selected dramatic texts.

DRA 116 **Intro to the Theatre 3 Y**
Continuation of DRA 115. Continued application of principles of play analysis and mise-en-scène to the interpretation of selected dramatic texts.

DRA 125 **Intro to Acting-Majors 3 Y**
Basic group and individual exercises and improvisations in vocal, physical, and emotional relaxation, concentration, and dramatic action. Required of all first-year students majoring in drama.

DRA 126 **Introduction to Acting 3 Y**
Continuation of group and individual exercises and improvisations in vocal, physical, and emotional relaxation, concentration, and dramatic action. Required of all first-year students majoring in drama. Limited to drama majors.
PREREQ: DRA 125.

DRA 130 **Dance for Musical Theater: Tap I 2 Y**
Introduction to basic tap dance technique and vocabulary, as applied to musical theater. Permission of Instructor.

DRA 135 **Dance for Musical Theater: Jazz I 2 Y**
Introduction to the technique and style of classic and/or contemporary jazz dance, specifically as applied to the musical theater stage. Permission of instructor

DRA 136 **Jazz Dance for Actors 2**
Introduction to the style and technique of jazz dance, specifically designed for the acting student. R1, 4 credits maximum

DRA 140 **Ballet I 2 S**
Introduction to the theory and technique of classical dance as applied to musical theater. Four semesters of ballet are required for musical theater majors. R

DRA 210 **Dance Muscl Thtr: Mderm 2 Y**
Designed to enhance students' understanding of and ability to perform modern dance technique through exploring the elements of dance: centering the body, gravity, balance, posture, gesture, rhythm, moving in space, and breath.

DRA 220 **Introduction to Scene Study 3 S**
Application of acting fundamentals to scenes from modern and classical drama.
PREREQ: DRA 125, 126.

DRA 221 **Voice/Verse Practicum I 3 Y**
Exercises to free the voice from factors inhibiting spontaneous expression of thought and feeling. Students will use Shakespeare's sonnets and other texts in order to learn the basic elements for working with heightened poetic language.

DRA 222 **Voice/Verse Practicum II 3 Y**
Continuation of DRA 221 with advanced vocal exercises. Students will work with heightened and poetic texts using speeches and short scenes from classical and modern texts.
PREREQ: DRA 221.

DRA 223 **Stage Diction 2 IR**
Development of the actor's ability to speak clearly without regional or other influences. Tutorials and classes stressing individual progress.

DRA 224 **Stage Diction 2 IR**
Continuation of DRA 223 emphasizing connected general American speech and stage standard diction.
PREREQ: DRA 223.

DRA 230 **Dance for Musical Theater: Tap II 2 Y**
Continuous and progressive study of tap dance technique, including introduction to standard audition material. Preliminary style study.
PREREQ: DRA 130.

DRA 235 **Dance for Musical Theater: Jazz II 2 Y**
Continuation of the work begun in Jazz I, progressing to intermediate level turns, jumps, and combinations.
PREREQ: DRA 135. R1, 4 credits maximum

DRA 240 **Ballet II 2 S**
Continuation of work begun in Ballet I, progressing to extended adagios, elementary turns, and allegro combinations.
PREREQ: DRA 140.

DRA 260 **Musical Theater Practicum I S**
Introduction to Musical Theater through analysis, sight reading, vocal technique and practice of the repertoire. Required of all first year students majoring in Musical Theater. Must be taken twice.

DRA 261 **Intro Mus Thtre Perform I 3 Y**
Synthesis of music, lyrics, and acting fundamentals in the preparation of basic musical theater repertoire for performance. Required of all musical theater majors.
permission of instructor

DRA 262 **Intro Musiel Thtre Perf II 3 Y**
Continuation of DRA 261 emphasizing more complex problems from the musical theater repertoire. Required of all musical theater majors.
PREREQ: DRA 261.

DRA 270 **Experience Credit 1-6 S**
Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. Permission in advance of assigned instructor, dept chair or dean

DRA 273 **Movement for Actors I 2 Y**
Movement principles and techniques to develop balance, strength, flexibility, endurance and coordination combined with exercises to build physical awareness, confidence and good anatomical use. Required of all second year students majoring in Drama. R1, 4 credits maximum

DRA 274 **Movement for Actors II 2 Y**
Emphasizes dynamic physical practice and analysis in the work of the actor. Required of all second year students majoring in Drama. R1, 4 credits maximum

DRA 305 **Adv Acting (Drama Minors) 3 Y**
An experiential exploration of the acting process, focusing on advanced acting techniques and their application to challenging texts, designed for theater minors.
PREREQ: DRA 105.

DRA 310 **Theater Dance Styles I 2**
Dance styles used in the musical theater repertory. Evolution of theater dance from musical/rhythmic and period sources.
PREREQ: DRA 240. R3, 8 credits maximum

DRA 311 **Theater Dance Styles II 2**
Continuation of the work begun in the Styles I course. Emphasizing theater dance styles from the 1920s to the present. Studio investigation of the styles of major musical theater choreographers.
PREREQ: DRA 310. R2, 10 credits maximum

DRA 320 **Adv Acting: Modern Drama 3 S**
Application of acting fundamentals to works of modern naturalism from Ibsen to Shepard. Method: assigned scenes. Prereq: acceptance for advanced work by departmental faculty.

DRA 321 Advanced Voice Practicum I 3 S
A continuation of DRA 221, 222 exploring classical texts that challenge the actor emotionally. The class will cover a wide range of periods and will focus on clear diction and facility with complex spoken language.
PREREQ: DRA 221, 222.

DRA 322 Advanced Voice Verse Practicum II 3 S
A continuation of DRA 321, including the study of dialects for the stage.
PREREQ: DRA 321.

DRA 323 Scene Study with Directors 3
Actors will work with student directors on a wide range of texts in order to develop collaborative vocabulary and technique. Required for all BFA acting majors. BFA majors only.
PREREQ: DRA 220..

DRA 328 Pract. in Stage Makeup 2 Y
Problems and practice in stage makeup techniques.

DRA 330 Dance for Musical Theater: Tap III 2
Tap dance technique on the intermediate level. Emphasis on technical precision, rhythmic accuracy, dynamics, and stylistic components of tap.
PREREQ: DRA 230.

DRA 335 Dance for Musical Theater: Jazz III 2 Y
Ongoing and progressive study of contemporary jazz dance technique and styles. Intermediate/advanced level jumps, turns, and combinations.
PREREQ: DRA 235, 240. R3, 4 credits maximum

DRA 340 Ballet III 2 S
Continuous and progressive studio study of the technique and theory of classical theatrical dance. Intermediate level adagio, turns, petit and grand allegro.
PREREQ: DRA 240.

DRA 350 London Theatre Season 2 Y
Theater in Britain, particularly West End and major repertory theaters in London. Students attend weekly lecture and 10 theatrical productions. An activity fee covers ticket costs. Not open to drama majors.

DRA 351 Contemporary Brit Theatre 3 Y
Theater in the British Isles; West End and major repertory theaters in London. Readings, lectures, and attendance at and discussion of current productions. Not open to drama majors.

DRA 352 Survey of Theatre History 3
World theater from its ritual beginnings to the present, with an emphasis on significant theatrical movements, dramatic genres, and styles of performance.
PREREQ: DRA 115, 116.

DRA 355 Dev of Theatre & Drama I 3 Y
Theater and drama from pre-Greek through Elizabethan England. Changes in social, cultural, and political context related to changing theatrical and dramatic forms.
PREREQ: DRA 352.

DRA 356 Dev/Theater & Drama II 3 Y
Drama and theatrical production from Italian Renaissance through circa 1870.
PREREQ: DRA 352, 355.

DRA 362 Musical Theater Scene Study 3
Study and performance of scenes, duets, trios, and ensembles from the Musical Theater repertoire.
PREREQ: DRA 260, 261, 262.

DRA 379 Honors in Drama 3 IR
Limited to selected students.

DRA 381 Italian and European Theater 1500-1700 3
Crosslisted with: LIT 381
Secular and professional drama as it emerged in Renaissance Italy and spread to Spain, England, and France. Selected works of Machiavelli, Monteverdi, Cervantes, Calderon, Shakespeare, Molière, Behn and others (in English). Offered only in Florence.

DRA 389 Honors Drama 3 IR
Assigned problems individually fitted to the needs of the student of play directing, play writing, or theater research, to stimulate creative effort. Senior thesis required detailing results of the particular project.

DRA 400 Selected Topics 1-3
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

DRA 405 Adv Actg/Styles/Dra Minrs 3
An experiential exploration of the acting process, focusing on advanced acting techniques and their application to classical and poetic texts, designed for drama minors.
PREREQ: DRA 305.

DRA 410 Auditioning:Musical Thtr 3 SI
For seniors in musical theater. Repertoire, techniques, and procedures necessary for a professional career in musical theater. Practice, lecture/discussion, and readings.
PREREQ: DRA 261 AND 262. R1, 6 credits maximum

DRA 420 Advanced Scene Study: Poetic Drama 3 S
Dealing with acting challenges posed by verse and other forms of poetic writing from the classical repertoire, such as Shakespeare and the ancient Greeks. Acceptance for advanced work by drama department faculty and permission of instructor. BFA majors only. R3, 12 credits maximum

DRA 421 Acting Workshop 2 SI
For those interested in theater as observers or professionals. Sense memory, improvisations, objectives, personalization, emotional recall.
R

DRA 422 Period Style in Thtr Perf 3 IR
Development of the use of language and body in a wide variety of plays, ranging from classical Greek to modern. Permission of instructor.

DRA 423 Character Mask for the Actor 3 Y
Exploration of extreme character and composition using advanced physical vocabulary and character mask exercises in the tradition of LeCoq.

DRA 430 Dance for Musical Theater: Tap IV 2
Studio study of tap dance technique on the advanced level. Progression to extended combinations, stressing technical and rhythmic accuracy in a variety of dance styles.
PREREQ: DRA 330.

DRA 433 Classical and Modern Speech Practicum 3 IR
Development of facility with complex spoken language. A sight reading class, incorporating poetry and prose from a wide range of periods, using Linklater voice techniques. Permission of instructor.

DRA 435 Dance for Musical Theater: Jazz IV 2 Y
Advanced classic and/or contemporary jazz dance technique and style for musical theater performers. Progression to advanced level jumps, turns and combinations. Emphasis on style, performance and audition strategies.

DRA 441 Ballet IV 2
Advanced ballet technique for musical theater performers. Progression to complex combinations, turns, grand allegro. Consideration of stylistic elements and performance qualities.
PREREQ: DRA 340. R6, 16 credits maximum

DRA 450 Adv Mus Thtr Performance 3 Y
Continuation of performance techniques begun in DRA 261, 262. Advanced problems in songs from the entire musical theater repertoire. One semester required of all musical theater majors.
PREREQ: DRA 262. R2, 15 credits maximum

DRA 451 Topics/Theatrical&Dra Hist 3 IR
Period, stylistic development, or other aspect of the history of theater and drama selected by the department and announced before registration.
PREREQ: DRA 355, 356. R

DRA 452 Topics/Modern Theatre&Dra 3 IR
Aspect of the development of the theater and drama of our time selected by the department and announced before registration. May be repeated for credit.
PREREQ: DRA 355, 356. R

DRA 453 History of Musical Theater 3 Y
Survey of musical theater genres, composers, and lyricists, directors, choreographers and performers, from circa 1860 to the present. Required of all musical theater majors.
PREREQ: DRA 355, 356.

DRA 460 Musical Theater Practicum 1-3 S
Introduction to musical theater through analysis and sight-reading of the repertoire. Permission of instructor

DRA 480 London Studios 3 S
Exercises and practice in various theater skills taught by London faculty in voice, stage movement, and other special areas typical of British training for the stage. Required of all acting/directing majors in the London program.

DRA 491 Theatre Management I 3 IR
Double Numbered with: DRA 691
History of management in American theater. Management aspects of community theater, regional theater, summer stock, New York commercial theater, educational theater. Permission of instructor.

DRA 515 Play Analysis and Introduction to Mise-en-Scène 3 Y
Play scripts as "scores" for production and performance. Techniques used by directors and designers to develop ideas for shaping the elements of theatrical art into viable production concepts. Constructive production criticism.

DRA 520 Graduate Scene Study I 0-3 S
Problems in characterization, period, and language posed by masterworks of prose drama. Scenes from Ibsen, Chekhov, Shaw, etc.

DRA 521 Acting Workshop (London) 3 S
Training sessions with British adjunct teachers in areas of skills and technique not available on the Syracuse campus. Each teacher offers several sessions in a special area.

DRA 522 Acting Workshop (London) 3 S
Training sessions with British adjunct teachers in areas of skills and technique not available on the Syracuse campus. Each teacher offers several sessions in a special area.

DRA 523 Professional Audition Theory and Practice 3 S
For seniors and graduate students in acting. Procedures and techniques necessary to manage a professional career in theater, film, or television. Readings, lecture/discussion, and practice.

DRA 524 Acting: Drama in the Elizabethan and Romantic Modes 0-3 Y
Character study, scene work, rehearsal, and performance of plays in the Elizabethan and/or romantic modes. Plays may be either of the historical periods or modern works in the same style. Instructor determines credit load of each student individually. R3, 12 credits maximum

DRA 525 Acting: Drama in Classic and Classicist Mode 0-3 Y
Character study, scene work, rehearsal, and performance of plays in classic or classical modes. Plays may be Greek, Roman, neoclassical, or modern works in the same style. Instructor determines the credit load of each student individually. R3, 12 credits maximum

DRA 526 Acting: Drama in the Naturalistic Mode 0-3 Y
Character study, scene work, rehearsal, and performance of plays in the naturalistic tradition. Instructor determines the credit load of each student individually. R3, 12 credits maximum

DRA 527 Dialects 3 IR
Standard foreign dialects for dramatic purposes using phonograph records and phonetic transcriptions of foreign dialects. Permission of instructor.

DRA 528 Dialects Workshop 3 IR
Continuation of DRA 527.
PREREQ: DRA 527 OR PERMISSION OF INSTRUCTOR.

DRA 529 Acting for the Frame 3 Y
Acquisition and development of specialist screen acting skills. Techniques are explored and practiced extensively in front of the camera. Offered only in London. Admission to the London Drama Program by permission of department chair.

DRA 530 Advanced Actors Workshop 3 S
Scene study. Selection by audition and interview. R3, 15 credits maximum

DRA 531 Introduction to Directing 3 Y
Basic directing theory and practice. Projects and exercises in fundamental directing skills. Permission of instructor.
PREREQ: DRA 105, 106 OR 125, 126, 515.
PERMISSION OF INSTRUCTOR.

DRA 532 Directing: Special Problems 3 Y
Specific area of directing selected by the department and announced before registration. Direction of assigned scenes with actors from DRA 320. May be repeated for credit, if problems differ.
PREREQ: DRA 515 AND PERMISSION OF INSTRUCTOR. R

DRA 534 Directing: Eliz & Romantic 1-3 Y
Assigned work as assistant to director or stage manager for production of DRA 524 class. Director determines credit load of each student individually.
PREREQ: DRA 355, 515, 531. PERMISSION OF INSTRUCTOR.

DRA 535 Directing: Drama in Classic and Classicist Modes 1-3 Y
Assigned work as assistant to director or stage manager for production of DRA 525 class. Director determines credit load of each student individually.
PREREQ: DRA 356, 515, 531. PERMISSION OF INSTRUCTOR.

DRA 536 Directing: Drama in the Naturalistic Mode 1-3 Y
Assigned work as assistant to director or stage manager for production of DRA 526 class. Director determines credit load of each student individually.
PREREQ: DRA 356, 515, 531. PERMISSION OF INSTRUCTOR. R

DRA 539 Directors' Workshop 3 S
Increasing conceptual skills and rehearsal techniques by directing assigned materials under close faculty supervision. Selection by interview.

DRA 540 Theater Dance Repertory 1-2
Studio study of significant choreography from the musical theater repertoire. Emphasizing technical accuracy, stylistic integrity, and performance quality. Permission of instructor

DRA 554 Emergence of Modern Theater 3 IR
Sources of the modern theater and development of styles and movements from the nineteenth century. Influential social and cultural forces in historical context.

DRA 555 History American Theatre 3 SI
Development of American theater from colonial origins to present. Emergence of a distinctive national tradition.

DRA 560 Music Theater Production 0-3 S
Character study, scene work, music and dance work, rehearsal and performance of musical theater works. Admission by audition and permission of instructor only. Instructor to determine credit load of each student individually. R

DRA 561 Music and Shakespeare 3-4
Crosslisted with: HOM 561
A discussion-based course investigating the place of music in Shakespeare's plays. Also considers the role of music in early modern English culture as well as later musical adaptations of Shakespeare.

DRA 575 Choreography/Musical Stage 1 SI
Improvisation and basic rules of dance composition to familiarize future directors and choreographers with dance production in musical theater. Dance films, contributions of important choreographers. Weekly and semester group and solo assignments.

DRA 576 Choreography/Musical Stage 1 SI
Improvisation and basic rules of dance composition to familiarize future directors and choreographers with dance production in musical theater. Dance films, contributions of important choreographers. Weekly and semester group and solo assignments.

DRA 581 Intro to Playwriting 3 SI
Structure, characterization, dialogue. Practice in writing the short play.
PREREQ: DRA 515.

DRA 582 Play Writing 3 SI
Continuation of DRA 581.
PREREQ: DRA 581.

DRA 585 Creative Dramatics 0-3 IR
Theater activities for young children and adolescents in educational and community settings. Readings, discussion, practice, and supervised field experience in theater games, improvisation, and play-making techniques.

DRA 586 Creative Dramatics 0-3 IR
Theater activities for young children and adolescents in educational and community settings. Readings, discussion, practice, and supervised field experience in theater games, improvisation, and play-making techniques.
PREREQ: DRA 585.

Drawing

DRW 113 Foundation Drawing 3 S
Crosslisted with: FND 113
Drawing as a form of investigation of the visual world. Emphasizing process over product.

DRW 114 Special Topics in Foundation Drawing 3 S
Crosslisted with: FND 114
Selected areas of and approaches to drawing.

DRW 203 Painting and Drawing for Non-Art Majors 1-3 S
Crosslisted with: PTG 203
Fundamental concepts for techniques of painting and drawing. Open to non-art students only. May not be used for credit toward B.F.A. except by petition to Department of Studio Arts.

DRW 204 Painting and Drawing for Non-Art Majors 1-3 S
Crosslisted with: PTG 204
Fundamental concepts for techniques of painting and drawing. Open to non-art students only. May not be used for credit toward B.F.A. except by petition to Department of Studio Arts.

DRW 245 Figure Drawing 2-3 S
Crosslisted with: PTG 255
Human figure as subject and tool for drawing ideas. Figure composition, historical significance, drawing media.
PREREQ: FND/DRW 114.

DRW 246 Figure Drawing 2-3 S
Crosslisted with: PTG 256
Human figure as subject and tool for drawing ideas. Figure composition, historical significance, drawing media.
PREREQ: FND/DRW 114..

DRW 251 Printmaking: Introductory Intaglio 3 Y
Crosslisted with: PRT 251
Etching, drypoint, aquatint, and a variety of experimental approaches to plate making and printing. Experience in drawing and two-dimensional problem solving.

DRW 252 Printmaking: Introductory Intaglio 3 Y
Crosslisted with: PRT 252
Etching, drypoint, aquatint, and a variety of experimental approaches to plate making and printing. Experience in drawing and two-dimensional problem solving.

DRW 253 Printmaking: Introductory Lithography 3 Y
Crosslisted with: PRT 253
Basic technical processes of stone lithography, drawing to editioning. All aspects of direct drawing and transfer methods, etching, and printing processes. Experience in drawing and two-dimensional problem solving.

DRW 254 Printmaking: Introductory Lithography 3 Y
Crosslisted with: PRT 254
Basic technical processes of stone lithography, drawing to editioning. All aspects of direct drawing and transfer methods, etching, and printing processes. Experience in drawing and two-dimensional problem solving.

DRW 255 Printmaking: Introductory Serigraphy 3 Y
Crosslisted with: PRT 255
Papercut stencil, handcut stencil, photographic kodalith and film-positive photo stencil, various experimental techniques, and ink formulas. Drawing and two-dimensional problem solving.

DRW 256 Printmaking: Introductory Serigraphy 3 Y
Crosslisted with: PRT 256
Papercut stencil, handcut stencil, photographic kodalith and film-positive photo stencil, various experimental techniques, and ink formulas. Drawing and two-dimensional problem solving.

DRW 257 Printmaking: Introductory Relief 3 Y
Crosslisted with: PRT 257
Investigation of the process. Cutting and printing the raised surface of various materials, including wood, linoleum, plaster, masonite, and boxwood. Experience in drawing and two-dimensional problem solving.

DRW 258 Printmaking: Introductory Relief 3 Y
Crosslisted with: PRT 258
Investigation of the process. Cutting and printing the raised surface of various materials, including wood, linoleum, plaster, masonite, and boxwood. Experience in drawing and two-dimensional problem solving.

DRW 351 Printmaking, Intermediate Workshop 3 Y
Crosslisted with: PRT 351
Individual development in one or more printing processes: relief, intaglio, lithography, silk screen. Problem solving through drawing and development of imagery.

DRW 352 Printmaking, Intermediate Workshop 3 Y
Crosslisted with: PRT 352
Individual development in one or more printing processes: relief, intaglio, lithography, silk screen. Problem solving through drawing and development of imagery.

DRW 353 Anatomy 3 IR
Crosslisted with: PTG 353
The skeleton, construction of the human body, and interpretation in drawing.

DRW 354 Anatomy 3 IR
Crosslisted with: PTG 354
The skeleton, construction of the human body, and interpretation in drawing.

DRW 355 Intermediate Drawing 2-3 S
Crosslisted with: PTG 355
Continuing development of critical awareness through exploration of ideas and media. Components of pictorial structure and expression.

DRW 356 Intermediate Drawing 2-3 S
Crosslisted with: PTG 356
Continuing development of critical awareness through exploration of ideas and media. Components of pictorial structure and expression.

DRW 451 Printmaking: Advanced Workshop 3 Y
Crosslisted with: PRT 451
Individual research. One or more processes, emphasizing color printing and integration of advanced printmaking methods and materials. Resolution of concept and imagery through drawing and problem-solving skills.

DRW 452 Printmaking: Advanced Workshop 3 Y
Crosslisted with: PRT 452
Individual research. One or more processes, emphasizing color printing and integration of advanced printmaking methods and materials. Resolution of concept and imagery through drawing and problem-solving skills.

DRW 455 Advanced Drawing 2-3 Y
Crosslisted with: PTG 455
Historical awareness. Relation of drawing to major areas of study. Philosophical development in the use of personal imagery and techniques.

DRW 456 Advanced Drawing 2-3 Y
Crosslisted with: PTG 456
Historical awareness. Relation of drawing to major areas of study. Philosophical development in the use of personal imagery and techniques.

DRW 503 Drawing and Painting for Non-Art Majors 1-3 S
Crosslisted with: PTG 503
Fundamental concepts and techniques of painting and drawing.

DRW 504 Drawing and Painting for Non-Art Majors 1-3 S
Crosslisted with: PTG 504
Fundamental concepts and techniques of painting and drawing.

DRW 555 Drawing Research 1-6 S
Crosslisted with: PTG 555
Drawing as an expression and creative art form.
PREREQ: PTG 455, PTG 456.

Drumset

DRS 110 Drumset Instruction 1-2
For non-music students.

DRS 115 Drumset Instruction 1-2
For music students.

DRS 116 **Drumset Instruction 1-2**
For music students.

DRS 210 **Drumset Instruction 1-2**
For non-music students.

DRS 215 **Drumset Instruction 1-2**
For music students.

DRS 216 **Drumset Instruction 1-2**
For music students.

DRS 310 **Drumset Instruction 1-2**
For non-music students.

DRS 315 **Drumset Instruction 1-2**
For music students.

DRS 316 **Drumset Instruction 1-2**
For music students.

DRS 410 **Drumset Instruction 1-2**
For non-music students.

DRS 415 **Drumset Instruction 1-2**
For music students.

DRS 416 **Drumset Instruction 1-2**
For music students.

Ensemble (Chamber Music)

ENC 10 **Mixed 0-1 S**

ENC 20 **Piano 0-1 S**

ENC 30 **Strings 0-1 S**

ENC 40 **Woodwinds 0-1 S**

ENC 50 **Brass 0-1 S**

ENC 60 **Percussion 0-1**

Ensemble (Instrumental)

ENI 10 **Large Bands 0-1**

ENI 20 **Small Bands 0-1**

ENI 30 **Reading Band 0-1 IR**

ENI 40 **Large Orchestra 0-1 S**

ENI 50 **Small Orchestra 0-1 IR**

ENI 60 **Reading Orchestra 0-1 IR**

Ensemble (Vocal)

ENV 10 **Large Chorus 0-1 S**

ENV 20 **Small Chorus 0-1 S**

ENV 30 **Reading Chorus 0-1 IR**

ENV 40 **Hendricks Chapel Choir 0-1 S**

Environmental Design

EDI 100 **Selected Topics 1-3 IR**
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

EDI 143 **Visual Presentation 3 Y**
Crosslisted with: ISD 143
Color drawing techniques in freehand sketching and rendered presentations. Problems in quick techniques and various media.

EDI 144 **Theory and Practice in the Visual Arts 3 Y**
Crosslisted with: ISD 144
Fundamental three-dimensional communication devices. Model making as a design tool and conceptual methodology.

EDI 145 **Environmental Design I 3 Y**
Crosslisted with: ISD 145
Concepts used in decision making and tools necessary for translating these concepts into visual statements.

EDI 146 **Environmental Design II 3 Y**
Crosslisted with: ISD 146
Design relationships and coordinates as determinates of functional, structural, and aesthetic qualities of interior environments; the physical/cultural context and method for translating programmatic requirements into three-dimensional design decisions.
PREREQ: EDI/ISD 143, 145.

EDI 148 **Environmental Design Issues 3**
Crosslisted with: ISD 148
Issues in the fields of sustainable systems, green technology, and organic design in relation to interior space.

EDI 205 **Computer Applications in EDI, Level I 3 Y**
Computer instruction for interior design emphasizing computer-aided drafting and solid modeling for interior application.
PREREQ: EDI 146, ISD 251..

EDI 300 **Selected Topics 1-3 IR**
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

EDI 305 **Computer Applications, Level II 3 Y**
Crosslisted with: ISD 305
Instruction in the use and application of CADD (Computer Aided Design and Drafting). Emphasis given to architectural drafting, space planning and two- and three-dimensional representation.
PREREQ: EDI 205, ISD 205..

EDI 326 **Italian Design Tradition: Room, House, City 3 IR**
Room, house, city as products of a cultural heritage that offers historical, social, artistic, and spatial meaning. Offered in Florence, Italy.

EDI 327 **Room, House, City: Studio 3 IR**
Interior room becomes, simultaneously, starting point and result of design compositions of EDI 326. Offered in Florence, Italy.
COREQ: EDI 326.

EDI 341 **Building and Construction 3 Y**
Introduction to building materials and construction techniques for wood-frame, steel-frame, and masonry structures. How buildings stand up, building codes, working drawings, and site-planning process.
PREREQ: ISD 206..

EDI 346 **American Traditions 3 Y**
Crosslisted with: ISD 346
Historic developments in America as they related to housing and commercial design. Historic preservation laws and codes, barrier-free design, and adaptive reuse considerations.

EDI 347 **Historic Buildings: Studio 3**
Crosslisted with: ISD 347
Projects in historic preservation and adaptive use.
PREREQ: EDI 346.

EDI 348 **Introduction to Lighting Design 3 Y**
Crosslisted with: ISD 348
Theory and application of lighting as design tool for use in interior and exterior situations. Technical material and communication required for design; contract and specified documents.
PREREQ: ISD 351.

EDI 400 **Selected Topics 1-3**
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

Euphonium

EUP 130 **Euphonium/Non Mus Majors 1-4 S**
For non-music students.

EUP 135 **Euphonium Instruction 1-4 S**
For music students.

EUP 136 **Euphonium Instruction 1-4 S**
For music students.

EUP 230 **Euphonium Instruction 1-4 S**
For non-music students.

EUP 235 **Euphonium Instruction 1-4 S**
For music students.

EUP 236 **Euphonium Instruction 1-4 S**
For music students.

EUP 330 **Euphonium Instruction 1-4 S**
For non-music students.

EUP 335 **Euphonium Instruction 1-4 S**
For music students.

EUP 336 **Euphonium Instruction 1-4 S**
For music students.

EUP 339 **Performance Honors in Euphonium 1-4 S**

EUP 430 **Euphonium Instruction 1-4 S**
For non-music students.

EUP 435 **Euphonium Instruction 1-4 S**
For music students.

EUP 436 **Euphonium Instruction 1-4 S**
For music students.

EUP 439 **Performance Honors in Euphonium 1-4 S**

EUP 530 **Euphonium Instruction 1-4 S**
For non-music students. R

EUP 535 **Euphonium Instruction 1-4 S**
For music students.

EUP 536 **Euphonium Instruction 1-4 S**
For music students.

Fashion Design

FAS 120 Fashion Design: Concepts and Construction I 3 Y

Introduction to fashion design industry emphasizing ready-to-wear garment construction. Concepts learned in studio setting through demonstration and practice. Fabric structures explored. Required for fashion design sequence. Advanced Placement exam available.

FAS 121 Fashion Design: Concepts and Construction II 3 Y

In-depth analysis of garment construction techniques used in ready-to-wear industry. Design, research, and presentation skills; construction with different fabrics. Continuation of FAS 120. Advanced Placement exam available.
PREREQ: FAS 120.

FAS 147 Visual Thinking 3 Y

Training in productive thinking, developing visual perception, and translating finished thoughts into visible models as aids in the process of solving design problems.

FAS 155 Introduction to the Visual Arts 3 S

Analysis and appreciation of design. Two-dimensional design problem solving, criticism, and vocabulary.

FAS 222 Fashion Design: Flat Pattern 3 Y

Basic theory and practice of designing using master pattern. Patterns manipulated to create original design in two-dimensional method and tested in muslin.
PREREQ: FAS 121.

FAS 223 Fashion Design: Advanced Flat Pattern 3 Y

Advanced study and practice with pattern manipulation as a design method. Creation and execution of original designs by this two-dimensional method.
PREREQ: FAS 222.

FAS 231 Fashion Drawing I 3 Y

Basic study and practice in drawing the stylized figure; fashion details; fabrics and textures as implemented by the fashion designer in exploration and conceptual development of design ideas.
PREREQ: FAS 155, FND 105.

FAS 232 Fashion Drawing II 3 Y

Advanced study and practice in fashion drawing as a professional notation for communication between the designer and the other industry professionals: draper, pattern maker, sample maker, production manager, etc.
PREREQ: FAS 231.

FAS 270 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

FAS 300 Selected Topics 1-3

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester.

FAS 322 Fashion Design: Tailoring 3 IR

Materials, designs, and construction techniques in tailoring garments. Materials in relation to design, style trends, and presentation.
PREREQ: FAS 120, 121.

FAS 323 Fashion Design: Accessory Design 3 Y

Fundamentals of fashion accessory design. Concepts and execution of original designs in a variety of fashion accessories, such as hats, handbags, belts, gloves.
PREREQ: FAS 120.

FAS 332 Fashion Design: Draping 3 Y

Basic theory and practice of designing on the model form. Creation and execution of original designs by three-dimensional method.
PREREQ: FAS 223, 232.

FAS 333 Fashion Design: Advanced Draping 3 Y

Advanced study and practice in three-dimensional design techniques available in sculptural manipulation on the model form. Creating and executing original designs by these methods.
PREREQ: FAS 332.

FAS 335 History of Fashion Design I: Origins and Revivals 3 IR

History of fashion design from ancient times to the eighteenth century. Recurrence of historic details in modern designs. Background in art history recommended.

FAS 336 History of Fashion Design II: Contemporary Trends 3 S

Fashion design since the Industrial Revolution. Factors that influenced fashion design in the eighteenth, nineteenth, and twentieth centuries. Background in art history recommended.

FAS 341 Fashion Computer Aided Pattern Design 3

Through use of industry-specific software, students develop competence in the basics of computer-aided apparel patternmaking.
PREREQ: FAS 223.

FAS 422 Fashion Design: Senior Collection I 3 Y

Creating and executing original designs by the two- and three-dimensional methods. Advanced studies and research in relationships of fabric, specific design, design category, style trend, and artistic innovation.
PREREQ: FAS 333.

FAS 423 Fashion Design: Senior Collection II 3 Y

Creating and executing original designs by the two- and three-dimensional methods in a simulated atelier environment for maximum applications of acquired design skills.
PREREQ: FAS 422.

FAS 428 Social and Psychological Factors Influencing Clothing 3 IR

Application of social science concepts to the understanding of clothing over the life cycle.

FAS 470 Experience Credit 1-6 S

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

FAS 490 Independent Study 1-6 S

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

FAS 526 Cultural Aspects of Clothing 3 IR

Global cultures; how dress and adornment enhance understanding of these cultures.

FAS 530 Problems in Environmental Arts 3 IR

Research in design, color, historic backgrounds applied to costume. Permission of Instructor. R

Fashion Illustration

FSH 271 Fashion Illustr Basic Skills 3 S/

Skills to produce sketches of live model. Techniques required for fashion illustration media reproduction.

FSH 272 Fashion Illustr Various Media 3 S/

Drawing the fashion model. Various media: black-and-white, color. Fashion trends, garment construction, fabrics, and texture.

FSH 371 Intermediate Fashion Illustrat 3 S/

Drawing the fashion model. Figure composition and layout. The male fashion figure. Second semester: current trends in fashion. Drawing the model. Developing a personal mode or style.
PREREQ: FSH 272.

FSH 372 Intermediate Fashion Illustrat 3 S/

Drawing the fashion model. Figure composition and layout. The male fashion figure. Second semester: current trends in fashion. Drawing the model. Developing a personal mode or style.
PREREQ: FSH 371.

FSH 471 Advanced Fashion Illustration 3 SI

Drawing the fashion model. Various styles for editorial, advertising, designer, and exhibition sketches. Second semester: portfolio preparation.
PREREQ: FSH 372.

FSH 472 Advanced Fashion Illustration 3 SI

Drawing the fashion model. Various styles for editorial, advertising, designer, and exhibition sketches. Second semester: portfolio preparation.
PREREQ: FSH 471.

FSH 570 Fashion Illustration Res Prob 3 SI
Individual development in specialized areas of fashion illustration.
PREREQ: FSH 471.

Fiber Arts

FIB 221 Introduction to Fiber Arts 3 S
Introductory course for the exploration of fiber as a 2-D and 3-D expressive artistic medium. Experimentation with fiber arts techniques include dying, embellishment, sewing, structure and interlocking within a contemporary art context.

FIB 226 Intro to the Floor Loom 2-3 S
Use of the floor loom for exploration of making many kinds of cloth. Focus on color, pattern, texture, and a variety of interlacements of yarn. Introduction to the use of computers in weaving.

FIB 227 Experimental Textiles and Materials 3
Introductory course for the exploration of fiber as a 2-D and 3-D expressive artistic medium. Experimentation with fiber arts techniques include dying, embellishment, sewing, structure and interlocking within a contemporary art context.

FIB 322 Intermediate Weaving 3 Y
Double Numbered with: FIB 622
Expands students understanding of floor looms as expressive artistic tools. Techniques introduced include weaving-specific dying, complex woven structures, and computer-interfaced weaving on looms with 8, 16 or 24 harnesses. Additional work required of graduate students. May repeated once for credit.
PREREQ: FIB 226. R1, 6 credits maximum

FIB 323 Computer Printed Textiles and Materials 3
Double Numbered with: FIB 623
Use of digital images, design software and ink jet printers to design and produce printed textiles and materials students will use for art-to-wear and other unique artwork. Additional work required of graduate students.
PREREQ: FIB 227.

FIB 324 Sculptural Fibers 3 Y
Double Numbered with: FIB 624
Focus on processing and manipulation of pliable fibers into three-dimensional forms using traditional and nontraditional materials. Students will use armatures, structural supports, molding, stiffening, stuffing, and inflatables to create mass and volume. Additional work required of graduate students.
PREREQ: FIB 221, FIB 225, FIB 227 OR SCU 295, 296.

FIB 326 Intermediate Fiber Arts 3 Y
Intermediate level experience in weaving and off-loom construction; student-initiated research.
PREREQ: FIB 225 AND 226.

FIB 328 Extreme Knitting 3 S
Double Numbered with: FIB 628
'Extreme Knitting' spans historic hand manipulation to the use of contemporary technology. Students create unconventional fabrics exploring and creating wearable art and installation artwork as well as new and emerging extreme applications. Additional work required of graduate students. R1, 6 credits maximum

FIB 420 Fiber Arts Research Problems 1-12 Y
Individual projects undertaken with instructor's consultation and guidance. For advanced undergraduate students.
PREREQ: FIB 225, 226.

FIB 425 Advanced Fiber Arts 3 Y
Student-initiated research problems in fiber structures and interlocking on an advanced level. Practical experience in applied projects and professional practices for the fiber artist.
PREREQ: FIB 225 AND 226.

FIB 426 Advanced Fiber Arts 3 Y
Student-initiated research problems in fiber structures and interlocking on an advanced level. Practical experience in applied projects and professional practices for the fiber artist.
PREREQ: FIB 225 AND 226.

FIB 520 Fiber Arts Research Problems for Nonmajors 1-12 Y
For nonmajor graduate students. Individual projects undertaken with the instructor's consultation and guidance. R

Film

FIL 122 Sound/Image 3 Y
Development of the student's understanding and approach to the critical and practical challenges of working creatively with image and sound.

FIL 221 Cinematic Modes of Production 3 Y
Introduction to the various codes and forms that work at the mainstream and borders of cinematic production, such as documentary, experimental, animation, and fictional narrative, and the techniques of 16mm filmmaking.

FIL 222 Post-Production Workshop 3 IR
Introduction to various means of organizing and manipulating images and sound by both analogue and non-linear means.
PREREQ: FIL 221.

FIL 223 Filmmaking: Storytelling Production 3 Y
Exploration of cinematic storytelling through the production of a short 16mm narrative film.
PREREQ: FIL 221..

FIL 225 Problems of Film Perception 3 Y
A survey of major ideas of visual and audio perception. These ideas will be related to semiotic systems and how filmic meaning is encoded and decoded and/or recorded by the spectator.
PREREQ: ART 253.

FIL 226 Survey of Film Theory 3 Y
Readings in classical film theory and criticism and critical works discussed in relation to film screening.
PREREQ: ART 253.

FIL 228 Film Scriptwriting 3 Y
Introductory course to the basic elements of film scripting: dramatic fundamentals, screenplay format, narrative strategies, character creation, and dialogue development.
PREREQ: FIL 221.

FIL 321 Filmmaking: Animation 3 S
Laboratory in cel, object animation, and titling preparation, and execution. Special effects. Mattes. Rotoscoping. Bipack techniques.
PREREQ: FIL 222.

FIL 322 Cinematic Modes Workshop 3 S
Advanced exploration of cinematic modes through the creation of short film(s) and critical evaluation of the process. A 16mm release print is required upon completion of this course.
PREREQ: FIL 321.

FIL 324 Scriptwriting Workshop 3 Y
Offers students further opportunity to develop scriptwriting skills. Special attention on story, character development, and narrative strategies. A portfolio-quality script for a feature-length film or for the senior project will be written.
PREREQ: FIL 228.

FIL 329 Sound Design 3 Y
Principles of sound and acoustics as related to recording audio for film with equal treatment given to film sound design theory and practice in both analogue and digital forms of production assemblage and editing.
PREREQ: FIL 222. R2, 9 credits maximum

FIL 360 Topics in Film Culture 1-3 Y
Interaction between film and society. Specific issues, such as genre, auteur, ideology, spectatorship, and technology.
PREREQ: ART 253.

FIL 420 Filmmaking:Senior Project 3 S
Year-long production of a film demonstrating technical and artistic skills acquired in the film program. An accepted proposal required.
PREREQ: FIL 326.

FIL 520 Film Studies Seminar 3 S
Advanced topics relating a focused set of critical and theoretical questions to a specific film or group of films. For graduate and advanced undergraduate students.
PREREQ: FIL 325.

FIL 523 Cinema Acting&Directing 3 Y
Exercises in filming fictional dramatic scripts. Required of B.F.A. acting students and all film drama directors.

FIL 527 Critical Problems Film&Video 3 IR
Methods of film and video criticism. The place of the author, the text, the spectator, and the ideological underpinnings of aesthetic value in the critical process.
PREREQ: FIL 325,326.

Flute

FLT 110 Flute Instruction 1-4 S
For non-music students.

FLT 115 Flute Instruction 1-4 S
For music students.

FLT 116 Corporate Financial Policy and Strategy 1-4 S
For music students.

FLT 210 Flute Instruction 1-4 S
For non-music students.

FLT 215 Flute Instruction 1-4 S
For music students.

FLT 216 Flute Instruction 1-4 S
For music students.

FLT 310 Flute Instruction 1-4 S
For non-music students.

FLT 315 Flute Instruction 1-4 S
For music students.

FLT 316 Flute Instruction 1-4 S
For music students.

FLT 319 Performance Honors in Flute 1-4 S

FLT 410 Flute Instruction 1-4 S
For non-music students.

FLT 415 Flute Instruction 1-4 S
For music students.

FLT 416 Flute Instruction 1-4 S
For music students.

FLT 419 Performance Honors in Flute 1-4 S

FLT 510 Flute Instruction 1-4 S
For non-music students.

FLT 515 Flute Instruction 1-4 S
For music students.

FLT 516 Flute Instruction 1-4 S
For music students.

Foundation

FND 101 Beginning Drawing for Nonmajors 3 IR
Developing the student's proficiency in understanding the basic elements of drawing. In addition, basic one- and two-point perspective will be taught.

FND 102 Beginning Figure Drawing for Nonmajors 3 IR
Developing the student's proficiency in understanding the basic elements of figure drawing.

FND 103 Basic Design I 2-3 IR
Elements of design and their use in two- and three-dimensional studies.

FND 104 Basic Design II 2-3 IR
Elements of design and their use in two- and three-dimensional studies.

FND 105 General Drawing I 2-3 IR
Drawing in a variety of media to develop accurate observation and an understanding of form.

FND 106 General Drawing II 2-3 IR
Drawing in a variety of media to develop accurate observation and an understanding of form.

FND 107 Figure Drawing 1 2-3 IR
Drawing from the nude and costumed figure for understanding of action, proportion, and anatomical construction.

FND 108 Figure Drawing II 2-3 IR
Drawing from the nude and costumed figure for understanding of action, proportion, and anatomical construction.

FND 111 Time Arts 3
Art forms that involve the element of time. Students will investigate processes, conduct research, and develop critical thinking abilities in order to create projects in four dimensions.

FND 112 Special Topics in Time Arts 3
Studio course providing opportunity to explore selected topics in art forms involving time. R1, 9 credits maximum

FND 113 Foundation Drawing 3 S
Crosslisted with: DRW 113
Drawing as a form of investigation of the visual world. Emphasizing process over product.

FND 114 Special Topics in Foundation Drawing 3 S
Crosslisted with: DRW 114
Selected areas of and approaches to drawing.

FND 115 Two-Dimensional Creative Processes 3 S
Basic two-dimensional skills with an in-depth series of processes emphasizing the development of ideas through the use of various materials, techniques, and conceptual processes, developing a visual vocabulary, and critical thinking.

FND 116 Special Topics in Two-Dimensional Creative Processes 3 S
Studio course based on selected areas of two-dimensional processes. R

FND 117 Dimensional Arts 3 S
Introduction to a broad range of thought and material processes relevant to the understanding, organization, invention, and creation of three-dimensional objects and the transformation of space.

FND 118 Special Topics in Three-Dimensional Arts 3 S
Studio course based on selected areas of dimensional arts. R

FND 120 Time Arts Teaching Assistant Course 3
Teaching and leadership experience in the classroom. Students will work closely with faculty to learn to teach and to develop as artists and role models. This course links first-year and upper-level students in the classroom. Sophomore standing.
PREREQ: FND 111. R1, 6 credits maximum

French Horn

FHN 120 French Horn Instruction 1-4 S
For non-music students.

FHN 125 French Horn Instruction 1-4 S
For music students.

FHN 126 French Horn Instruction 1-4 S
For music students.

FHN 220 French Horn Instruction 1-4 S
For non-music students.

FHN 225 French Horn Instruction 1-4 S
For music students.

FHN 226 French Horn Instruction 1-4 S
For music students.

FHN 320 French Horn Instruction 1-4 S
For non-music students.

FHN 325 French Horn Instruction 1-4 S
For music students.

FHN 326 French Horn Instruction 1-4 S
For music students.

FHN 329 Performance Honors in French Horn 1-4 S

FHN 420 French Horn Instruction 1-4 S
For non-music students.

FHN 425 French Horn Instruction 1-4 S
For music students.

FHN 426 French Horn Instruction 1-4 S
For music students.

FHN 429 Performance Honors in French Horn 1-4 S

FHN 520 French Horn Instruction 1-4 S
For non-music students.

FHN 525 French Horn Instruction 1-4 S
For music students.

FHN 526 **French Horn Instruction 1-4 S**
For music students.

Guitar

GTR 71 **Classical Guitar Performance Seminar 0-3 S**

Weekly performance opportunity for guitar majors. Focus on communication of musical thoughts and ideas and the relationship between a successful performance and its necessary preparation.

PREREQ: GTR 165, MHL 071.

GTR 72 **Classical Guitar Performance Seminar 0-3 O**

Weekly performance opportunity for guitar majors. Focus on communication of musical thoughts and ideas and the relationship between a successful performance and its necessary preparation.

PREREQ: GTR 071; COREQ: GTR 166, MHL 072.

GTR 73 **Classical Guitar Performance Seminar 0-3**

Weekly performance opportunity for guitar majors. Focus on communication of musical thoughts and ideas and the relationship between a successful performance and its necessary preparation.

COREQ: GTR 265, MHL 073.

GTR 74 **Classical Guitar Performance Seminar 0-3**

PREREQ: GTR 073; COREQ: GTR 266, MHL 074.

GTR 75 **Classical Guitar Performance Seminar 0-3**

Weekly performance opportunity for guitar majors. Focus on communication of musical thoughts and ideas and the relationship between a successful performance and its necessary preparation.

PREREQ: GTR 365, MHL 075.

GTR 76 **Classical Guitar Performance Seminar 0-3**

Weekly performance opportunity for guitar majors. Focus on communication of musical thoughts and ideas and the relationship between a successful performance and its necessary preparation.

PREREQ: GTR 075; COREQ: GTR 366, MHL 076.

GTR 77 **Classical Guitar Performance Seminar 0-3**

Weekly performance opportunity for guitar majors. Focus on communication of musical thoughts and ideas and the relationship between a successful performance and its necessary preparation.

COREQ: GTR 465, MHL 077.

GTR 78 **Classical Guitar Performance Seminar 0-3**

Weekly performance opportunity for guitar majors. Focus on communication of musical thoughts and ideas and the relationship between a successful performance and its necessary preparation.

PREREQ: GTR 077; COREQ: GTR 466, MHL 078.

GTR 160 **Classical Guitar Instruction 1-4 S**

For non-music students.

GTR 165 **Classical Guitar Instruction 1-4 S**

For music students.

GTR 166 **Classical Guitar Instruction 1-4 S**

For music students.

GTR 260 **Classical Guitar Instruction 1-4 S**

For non-music students.

GTR 265 **Classical Guitar Instruction 1-4 S**

For music students.

GTR 266 **Classical Guitar Instruction 1-4 S**

For music students.

GTR 360 **Classical Guitar Instruction 1-4 S**

For non-music students.

GTR 365 **Classical Guitar Instruction 1-4 S**

For music students.

GTR 366 **Classical Guitar Instruction 1-4 S**

For music students.

GTR 369 **Performance Honors in Classical Guitar 1-4 S**

GTR 460 **Classical Guitar Instruction 1-4 S**

For non-music students.

GTR 465 **Classical Guitar Instruction 1-4 S**

For music students.

GTR 466 **Classical Guitar Instruction 1-4 S**

For music students.

GTR 469 **Performance Honors in Classical Guitar 1-4 S**

GTR 521 **Survey of Classical Guitar History and Literature 3 O**

For majors and non-majors. The history of the classical guitar, from 1487 to the present, devoted to guitar composers/performers and their musical works examined in historical, aesthetic and social contexts.

GTR 522 **Classical Guitar Fingerboard Harmony 3**

GTR 523 **Transcribing and Arranging for Classical Guitar 3**

GTR 524 **Classical Guitar Pedagogy 3**

GTR 560 **Classical Guitar Instruction 1-4 S**

For non-music students.

GTR 565 **Classical Guitar Instruction 1-4 S**

For music students.

GTR 566 **Classical Guitar Instruction 1-4 S**

For music students.

Harp

HRP 150 **Harp Instruction 1-4 S**
For non-music students.

HRP 155 **Harp Instruction 1-4 S**
For music students.

HRP 156 **Harp Instruction 1-4 S**
For music students.

HRP 250 **Harp Instruction 1-4 S**
For non-music students.

HRP 255 **Harp Instruction 1-4 S**
For music students.

HRP 256 **Harp Instruction 1-4 S**
For music students.

HRP 350 **Harp Instruction 1-4 S**
For non-music students.

HRP 355 **Harp Instruction 1-4 S**
For music students.

HRP 356 **Harp Instruction 1-4 S**
For music students.

HRP 359 **Performance Honors in Harp 1-4 S**

HRP 450 **Harp Instruction 1-4 S**
For non-music students.

HRP 455 **Harp Instruction 1-4 S**
For music students.

HRP 456 **Harp Instruction 1-4 S**
For music students.

HRP 459 **Performance Honors in Harp 1-4 S**

HRP 550 **Harp Instruction 1-4 S**
For non-music students.

HRP 555 **Harp Instruction 1-4 S**
For music students.

HRP 556 **Harp Instruction 1-4 S**
For music students.

Harpichord

HPD 130 **Harpichord Instruction 1-4 S**
For non-music students.

HPD 135 **Harpichord Instruction 1-4 S**
For music students.

HPD 136 **Harpichord Instruction 1-4 S**
For music students.

HPD 230 **Harpichord Instruction 1-4 S**
For non-music students.

HPD 235 **Harpichord Instruction 1-4 S**
For music students.

HPD 236 **Harpichord Instruction 1-4 S**
For music students.

HPD 330 **Harpichord Instruction 1-4 S**
For non-music students.

HPD 335 **Harpichord Instruction 1-4 S**
For music students.

HPD 336 **Harpichord Instruction 1-4 S**
For music students.

HPD 339 **Performance Honors in Harpichord 1-4 S**

HPD 430 **Harpichord Instruction 1-4 S**
For non-music students.

HPD 435 **Harpichord Instruction 1-4 S**
For music students.

HPD 436 **Harpichord Instruction 1-4 S**
For music students.

HPD 439 **Performance Honors in Harpichord 1-4 S**

HPD 530 **Harpichord Instruction 1-4 S**
For non-music students.

HPD 535 **Harpichord Instruction 1-4 S**
For music students.

HPD 536 **Harpichord Instruction 1-4 S**
For music students.

Illustration

ILL 261 **Introduction to Illustration 3 Y**
Survey of American illustration integrated with studio assignments for developing perceptual and conceptual literacy. Second semester: visual interpretation of manuscripts in various media. Camera as a research tool. Prereq for ILL 262: ILL 261.

ILL 262 **Introduction to Illustration 3 Y**
Survey of American illustration integrated with studio assignments for developing perceptual and conceptual literacy. Second semester: visual interpretation of manuscripts in various media. Camera as a research tool. Prereq for ILL 262: ILL 261. PREREQ: ILL 261.

ILL 265 **History of Illustration 3**
The history of American illustration since the mid 1800s to present. Impact on and reflection of American history in both cultural and visual forms.

ILL 273 **Drawing for Illustration 3 Y**
Exploration of traditional and contemporary approaches to drawing for illustrators and designers including comprehensive sketches and storyboards. Proportion and draped figure drawing emphasized.

ILL 274 **Sequential Illustration 3 Y**
Study of costumed figures in age, cultural, and historic variations as applicable to illustration. Emphasis on character and visual development for animation, storyboards, graphic novels, children's books, and time-based media. PREREQ: ILL 273.

ILL 283 **Media Arts 3 Y**
Introduction to materials, techniques, equipment, and processes used by designers and illustrators.

ILL 284 **Media Arts Techniques 3 Y**
Illustration skills and techniques. Practical application of color. Exploration of three-dimensional communication.

ILL 361 **Intermediate Illustration 3 Y**
Visual interpretation of reproduction, development of conceptual elements, composition, and color. PREREQ: ILL 261, 283.

ILL 362 **Illustration Principles 3 Y**
Principles of visual communication: choice of subject, procedures, and the practice of illustration. Studio class assignments. PREREQ: ILL 261, 262.

ILL 363 **Illustration Research Problems 3 Y**
Design and development of graphic projects. Information gathering methods using photography, library, and archival research. PREREQ: ILL 261, 262.

ILL 364 **Illustration Research Problems 3 Y**
Design and development of graphic projects. Information gathering methods using photography, library, and archival research. PREREQ: ILL 261, 262.

ILL 365 **Electronic Illustration 3 S**
Double Numbered with: ILL 565
Exploration of contemporary aspects of computer applications to visual problem solving in electronic, film, and print communications as they apply to the field of illustration. PREREQ: ILL 261, 283.

ILL 461 **Advanced Illustration 3 Y**
Assignments with professional restrictions focused on developing a greater awareness of concept and aesthetics in illustration. Second semester: development and completion of a well-rounded portfolio geared toward a specific market. PREREQ: ILL 361, 362.

ILL 462 **Advanced Illustration 3 Y**
Assignments with professional restrictions focused on developing a greater awareness of concept and aesthetics in illustration. Second semester: development and completion of a well-rounded portfolio geared toward a specific market. PREREQ: ILL 361, 362.

ILL 483 **The Business of Freelance Illustration 3 S**
Presentation, marketing, and promotion for the professional illustrator. Pricing, contracts, copyright laws, and other professional issues.

ILL 561 **Illustration Concept 3 Y**
Visiting faculty. The creative process, working procedures from concept to finish, and relationship between illustrator and client. Studio assignments. PREREQ: ILL 361, 362.

ILL 562 **Illustration Concept 3 Y**
Visiting faculty. The creative process, working procedures from concept to finish, and relationship between illustrator and client. Studio assignments. PREREQ: ILL 361, 362.

ILL 565 **Electronic Illustration 3 S**
Double Numbered with: ILL 365
Exploration of contemporary aspects of computer applications to visual problem solving in electronic, film, and print communications as they apply to the field of illustration. PREREQ: ILL 261, 283.

Industrial Design

IND 204 **Industrial Design: Technical Graphics 3 Y**
True-scale perspective systems, orthographic projections, board skills, and presentation techniques.

IND 271 **Principles of Industrial Design I 3 Y**
Theoretical and technical elements, principles, and methodology. Development of the intellectual base, philosophical attitude, and manipulative skills that permit innovative solutions to product design problems.

IND 272 **Principles of Industrial Design II 3 Y**
Basic design problems incorporating mechanical and electrical power systems, production constraints, and simple hand-to-product human-factor considerations.

IND 273 **Principles of Industrial Form I 3 Y**
Generation of planer and geometric form as related to materials, tools, and machine processes.

IND 274 **Principles of Industrial Form II 3 Y**
Analysis and generation of additive, subtractive, and deformative curvilinear form as related to materials, tools, and machine processes.

IND 276 **Industrial Design: Visualization and Representation 3 Y**
Visualization, object representation, and presentation techniques examining the interaction between traditional drawing and technology as a means to communicate.

IND 373 **Production Processes: Metals 3 Y**
Transforming metal into appropriate product forms by various mass production processes. Relationship of personal sensitivity to the logical formation of metal products. PREREQ: IND 273, 274.

IND 374 **Production Processes: Plastics 3 Y**
Transforming plastic material into appropriate product forms by various mass production processes. Relationship of personal sensitivity to logical formation of plastic products. PREREQ: IND 273, 274.

IND 375 Human Factors For Designers 3 Y

Double Numbered with: IND 673
Human factors, ergonomics, and anthropometric considerations in the human-product-environment relationship.
PREREQ: IND 271, 272, PSY 205.

IND 376 Digital Surface Modeling 3 Y

Double Numbered with: IND 676
The use of three-dimensional surface modeling as visual communication. Design exploration and production tools as used to communicate intent to clients, modelers, engineers, and manufacturers.
PREREQ: IND 276.

IND 377 Industrial Design: Typography Studio 3 Y

Application of two-dimensional principles to the generation of three-dimensional typographic projects. The meaning of a text as it relates to surface structures, objects, image juxtapositions, and formal relationships.
PREREQ: IND 275..

IND 378 Symbology and Semiotics in Industrial Design 3

Introduction to semiotic communication theories as they relate to industrial design. Structural representation will be explored in both two and three-dimensional problem solving.
PREREQ: IND 377.

IND 471 Multidisciplinary Product Development 3 Y

Exposure to multidisciplinary design process in which multiple perspectives shape the goals and help determine the final outcome of the development process.
PREREQ: IND 376.

IND 472 Industrial Design: Product Systems 3 Y

Systematic analysis of human tasks and work sequences. Development of design criteria and specialized product environments and work stations. Problem definition and application of criteria to the design of complex products.
PREREQ: IND 471.

IND 476 Industrial Design: Environmental Practicum 3 Y

Systematic analysis of human spatial and graphic environment. Space analysis and visual communication: exhibit design; industrial, commercial, and public spaces; and products.
PREREQ: IND 471, 475/675.

IND 477 Industrial Design: Primary and Secondary Research 3

Introduction to design based on insights into human behavior, culture, and environment. Students will observe and document interpersonal interaction, environments, and the products people use. Emphasis on identifying specific user needs.
PREREQ: IND 375.

IND 479 Industrial Design Interface 3

Development of time-based interactions promoting expanding paradigms, better understanding, greater productivity, and ease of use through the use of adaptive interfaces.
PREREQ: IND 378.

IND 571 Industrial Design: Product Practicum 3 Y

Developing company-oriented products for domestic, commercial, and industrial markets; associated packaging and displays. Balance between corporate and user needs: materials, production limitations, distribution, and marketing patterns.
PREREQ: IND 472.

IND 572 Industrial Design: Advanced Problems 3 Y

Identification and solution of product problems based on industry-wide developments and societal needs. Appropriate and comprehensive solutions sought, developed, and communicated using professional-level techniques.
PREREQ: IND 571.

IND 573 Industrial Design: Thesis Research 3 Y

Comprehensive design document showing both critical and creative thinking. Both written and visual information are stressed in the final product.
PREREQ: IND 472, 476..

IND 574 Industrial Design: Thesis 3 Y

Research, analysis, and solution of a major design problem selected by the student to further his or her professional career.
PREREQ: IND 573.

IND 577 Industrial Design: Philosophy and Ethics 3 Y

Historical perspective. Contemporary position and responsibilities of the industrial designer in a technological/electronic society. Interplay with associated disciplines.

IND 578 Industrial Design: Professional Practices 3 Y

Business organizations, design management and planning. Relations with clients, office organization and management; proposals and contracts, estimating, and elementary accounting. Protection of designs, patents, copyrights, and trademarks.

Interior Design

ISD 143 Visual Presentation 3 Y

Crosslisted with: EDI 143
Color drawing techniques in freehand sketching and rendered presentations. Problems in quick techniques and various media.

ISD 144 Theory and Practice in the Visual Arts 3 Y

Crosslisted with: EDI 144
Fundamental three-dimensional communication devices. Model making as a design tool and conceptual methodology.

ISD 145 Environmental Design I 3 Y

Crosslisted with: EDI 145
Concepts used in decision making and tools necessary for translating these concepts into visual statements.

ISD 146 Environmental Design II 3 Y

Crosslisted with: EDI 146
Design relationships and coordinates as determinates of functional, structural, and aesthetic qualities of interior environments; the physical/cultural context and method for translating programmatic requirements into three-dimensional design decisions.
PREREQ: EDI 143, 145..

ISD 148 Environmental Design Issues 3 Y

Crosslisted with: EDI 148
Issues in the fields of sustainable systems, green technology, and organic design in relation to interior space.

ISD 205 Drafting for Designers 3 Y

Drafting elements and techniques used to solve three-dimensional designs with definitive drawings that accurately describe information required for manufacture and construction.

ISD 206 Materials for Interior Designers 3 Y

Materials, components, millwork, lighting, construction systems, and applicable codes for design and documentation of the built environment.
PREREQ: ISD 247 OR 251.

ISD 247 Interior Design: Introductory 3 IR

Theoretical and technical knowledge of basic principles of good design. Analysis of plan, design function, and aesthetics of interior space in relation to individual needs.
PREREQ: FND 104.

ISD 248 Interior Design: Introductory 3 IR

Theoretical and technical knowledge of basic principles of good design. Analysis of plan, design function, and aesthetics of interior space in relation to individual needs.
PREREQ: FND 247.

ISD 251 Principles of Interior Design 3 Y

Three-dimensional problem-solving techniques used to relate the elements and principles that shape interior space and the functional and aesthetic factors that affect individual spatial requirements.
PREREQ: FND 117 OR EDI 146.

ISD 252 Interior Design: Residential 3 Y

Basic concepts and construction methods for residential interiors and structures. Individual and group needs in relation to personal, family, and institutional living spaces.
PREREQ: ISD 251.

ISD 253 Interior Design: Graphics 3 Y

Drafting techniques, perspective drawing, board skills necessary to solve interior design problems and to communicate ideas.
PREREQ: FND 113 OR EDI 143.

ISD 254 Interior Design: Representation 3 Y

Presentation techniques using various media. Application of appropriate light, shade, textural, and color effects to communicate interior design concepts.
PREREQ: ISD 253.

ISD 305 Computer Applications, Level II 3 Y

Crosslisted with: EDI 305

Instruction in the use and application of CADD (Computer Aided Design and Drafting). Emphasis given to architectural drafting, space planning and two- and three-dimensional representation.

PREREQ: EDI 205 OR ISD 205..

ISD 346 American Traditions 3 Y

Crosslisted with: EDI 346

Historic developments in America as they related to housing and commercial design. Historic preservation laws and codes, barrier-free design, and adaptive reuse considerations.

ISD 347 Historic Buildings: Studio 3 Y

Crosslisted with: EDI 347

Projects in historic preservation and adaptive use.

PREREQ: EDI 348.

ISD 348 Introduction to Lighting Design 3 Y

Crosslisted with: EDI 348

Theory and application of lighting as design tool for use in interior and exterior situations. Technical material and communication required for design; contract and specified documents.

PREREQ: ISD 351..

ISD 351 Interior Design: Office Planning 3 Y

Space planning, tenant development, interior design, and documentation for the humane work environment. Corporate structure, management theory, humanistic ideals, and building systems and components in relation to office design.

PREREQ: ISD 252.

ISD 352 Interior Design: Contract 3 Y

Design of large office complexes, public use interiors, and service/care facilities. Individual activity; group interaction; cross-cultural relationships, requirements for people who are disabled; and health, safety, comfort, and technological factors for contract space design.

PREREQ: ISD 351.

ISD 353 Architectural Systems for Designers 3 Y

Basic structural theory, building processes, systems, materials, and code requirements for the design of new construction and remodeling. Vocabulary of architectural communication.

ISD 354 Architectural Systems for Designers 3 Y

Basic structural theory, building processes, systems, materials, and code requirements for the design of new construction and remodeling. Vocabulary of architectural communication.

PREREQ: ISD 353 OR EDI 341.

ISD 451 Interior Design: Commercial 3 Y

Double Numbered with: ISD 651

Exploration of design concepts for commercial enterprise. Adaptive reuse of existing space, prototype solutions, interior ordering systems, exhibition and graphic modes are explored.

PREREQ: ISD 354.

ISD 452 Interior Design: Public Space 3 Y

Double Numbered with: ISD 652

Programming, schematic design, and design development for public historic, or special interior environment in the community.

PREREQ: ISD 451/651.

ISD 453 Interior Design: Systems 3 Y

Double Numbered with: ISD 653

Research for the interior environment: lighting, computers, technology, furniture, materials, special populations, ergonomics, environmental and future needs. Theoretical and experimental design projects.

PREREQ: ISD 354.

ISD 454 Interior Design: Documentation 3 Y

Double Numbered with: ISD 654

Contract documentation and administration for contract commercial interior design project(s).

PREREQ: ISD 451/651 OR 453/653.

ISD 553 Interior Design: Philosophy and Research 3 Y

Position of the interior designer in a technological society and relation of design to the humanities, social sciences, and natural/physical sciences. Interaction with disciplines.

ISD 554 Interior Design: Professional Practice 3 Y

Organizational and management skills. Client and trade relations, marketing, design fees and contracts, accounting methods. Professional ethics and designer responsibility.

ISD 561 Furniture and Light Workshop 3 IR

Design and development of experimental furniture and light fixtures. Experiences in prototype construction and industrial production methods.

Jewelry And Metalsmithing

JAM 271 Introduction to Jewelry and Metals 3 S

Fundamental techniques and visual design problems as introduction to working with metal, cutting, soldering, forging, finishing, and other surface treatments.

JAM 272 Casting 3 S

Basic casting methods used by the studio jeweler and metalsmith. Includes wax modeling and lost wax, cuttlefish bone, and other casting methods.

PREREQ: JAM 271.

JAM 371 Surface Techniques and Processes 3 E

Surface techniques and processes used to enhance objects made for human use and adornment. This course builds on the fabrication and casting techniques learned in the introductory level courses.

PREREQ: JAM 272.

JAM 372 Metal Forming 3 E

Jewelry and object design and making, using metal forming techniques and processes. Objects may include vessel forms, containers and small sculptures.

PREREQ: JAM 272.

JAM 373 Stones and Stonesetting 3 O

Introduction to gemology as it pertains to jewelry and metalsmithing. Intermediate and advanced level stone settings.

PREREQ: JAM 272.

JAM 374 Color on Metal 3 O

Jewelry and metalsmithing techniques and processes used to color the surface of non-ferrous metal objects.

PREREQ: JAM 272.

JAM 471 Metals History and Issues 3 E

Double Numbered with: JAM 671

The history of jewelry and metalsmithing from prehistoric times to the present. Contemporary metalsmithing issues. Additional work required of graduate students. Foundation of History of Art or History of Design for undergraduates; minimum of 12 credits of art or design history equivalent for graduate students.

JAM 472 Jewelry Production 3 E

The reproduction of jewelry and objects through systems, moldmaking, and outsourcing. A practice commission experience and discussion of pricing included.

PREREQ: JAM 272.

JAM 473 Machine Tools and Technology 3 O

The use of metal forming, turning, and cutting machines will be presented. Included will be an introduction to metallurgy, toolmaking, and safety issues as they pertain to jewelry and metalsmithing studios.

PREREQ: JAM 272.

JAM 475 Senior Portfolio and Exhibition 3 Y

Required of seniors in the jewelry and metalsmithing major. Business practices, research paper, portfolio, professional packet, and exhibition of work. R

Museum Studies

MUS 405 Print Curatorship 3 SI

Double Numbered with: MUS 705

The origins and development of printmaking media are highlighted. Emphasizing the study of original prints by Durer, Rembrandt, Whistler, Picasso, and Rauschenberg in the University Art Collection. Additional work required of graduate students.

MUS 408 Public Learning in Museums 3 Y
Double Numbered with: MUS 708
Examine the educational role of museums in society. Study contemporary educational theory, audience development, and accessibility issues within the museum context. Additional work required of graduate students.

MUS 409 Museum Management 3 Y
Double Numbered with: MUS 709
Principles of effective leadership; mission, vision, and values; board, staff, executive relationships; civic engagement; assembling workforce; fiscal procedures; budget development. Short and long term goals planning. Direct experience with local museum professionals. Additional work required of graduate students.

MUS 412 Museum Development 3 Y
Double Numbered with: MUS 712
Understanding philanthropy and the fundamentals of successful fundraising, articulating a case for support, building endowment, capital campaigns, special events, planned giving, corporate and foundational support, practicing stewardship, the development profession. Additional work required of graduate students.

MUS 500 Selected Topics 1-3 IR
Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

MUS 503 Introduction to Museum Studies 3 Y
The museum's historical development and its role in modern society. Curatorial methodologies, research techniques, professional ethics, and effective writing. Permission of instructor

MUS 504 Administrative Challenge and Change in Museums 3 SS
Organizational change and current practice will be explored through visits to New York City museums and galleries. Presentations will be given by museum professionals.

MUS 506 Introduction to Curatorship 3 Y
Problems and responsibilities of the curator. Care, interpretation, and presentation of objects. Exhibition programming, history of collecting, curatorial ethics. Permission of instructor

Music Education

MUE 115 Technology in Music Education 2
Examines technology in music education. Computer hardware and software for notation, sequencing, multimedia, computer-assisted instruction, database, and sound editing are discussed. Provides practical understanding of music instrument digital interface, audio, video, Internet navigation, and web page design.

MUE 215 Foundations of Music Education 3 Y
Philosophy of music teaching. Professional activities and organizations. Current trends. Career opportunities. Personal/professional competency of model teachers. Analysis of prospective teacher's personal/professional goals and competency.

MUE 310 Field Experience in Music Education 1-2 S
Double Numbered with: MUE 610
Orientation to school settings: organization, services, guidance, goals, evaluation. Observations and supervised teaching experiences in music at elementary/secondary levels. Experiences coordinated with music education courses in sophomore/junior years and graduate teacher preparation program. Additional work required of graduate students. R1, 2 credits maximum

MUE 321 Teaching of Voice for Schools 1-2 Y
Double Numbered with: MUE 621
Laboratory in teaching voice, emphasizing performance techniques, care of vocal instrument, acoustical considerations, elementary ensemble performance, and practical demonstration of methods and materials for individual/group instruction. Upper-division status or permission of instructor.

MUE 325 Teaching of String Instruments 1-2 Y
Double Numbered with: MUE 625
Laboratory in string instruments, emphasizing performance techniques, care of instruments, acoustical considerations, elementary ensemble performance, and practical demonstrations of methods and materials for individual/group instruction. Upper-division status or permission of instructor.

MUE 326 Teaching of Brass Instruments 1-2 Y
Double Numbered with: MUE 626
Laboratory in brass instruments, emphasizing performance techniques, care of instruments, acoustical considerations, elementary ensemble performance, and practical demonstration of methods and materials for individual/group instruction. Upper-division status or permission of instructor. R1, 4 credits maximum

MUE 327 Teaching of Woodwind Instruments I 1-2 Y
Double Numbered with: MUE 627
Laboratory in flute, clarinet, and saxophone, emphasizing performance techniques, care of instruments, acoustical considerations, elementary ensemble performance, and practical demonstration of methods and materials for individual/group instruction. Upper-division status or permission of instructor.

MUE 328 Teaching of Woodwind Instruments II 1-2 Y
Double Numbered with: MUE 628
Laboratory in oboe and bassoon, emphasizing performance techniques, care of instruments, acoustical considerations, elementary ensemble performance, and practical demonstration of methods and materials for individual/group instruction. Upper-division status or permission of instructor.

MUE 333 Music in the Elementary School 1-2 Y
Double Numbered with: MUE 633
Methods and materials for elementary school music programs. Laboratory experience in teaching songs, rhythms, music listening, sight reading, and the use of visual aids. Orff and Kodaly methods. Open only to music education majors. Prereq: Upper-division status or permission of instructor.

MUE 334 Methods and Materials in General Music 1-2 Y
Double Numbered with: MUE 634
Methods and resources for grades 6-12 in nonperformance music classes. History, theory, general music. The changing voice. Upper-division status or permission of instructor.

MUE 415 Jazz Ensemble Techniques 2
Double Numbered with: MUE 617

MUE 416 Psychological and Sociological Aspects of Music 2-3 IR
Introduction to psychophysiological and sociophysiological processes involved in musical behavior. For non-music majors: permission of instructor.

MUE 423 Teaching of Percussion Instruments 1-2 Y
Double Numbered with: MUE 623
Laboratory in percussion instruments, emphasizing performance techniques, care of instruments, acoustical considerations, elementary ensemble performance, and practical demonstration of methods and materials for individual/group instruction. Upper-division status or permission of instructor.

MUE 431 Mngmt in Music Teaching 1-2 Y
Double Numbered with: MUE 731

MUE 435 Choral Rehearsal Techniques 2-3 Y
Double Numbered with: MUE 735
Principles and techniques of conducting and rehearsing choral groups. Music literature for typical choral group in schools.

MUE 437 Instrumental Rehearsal Techniques in Music Education 2-3 Y
Double Numbered with: MUE 737
Principles and techniques of conducting and rehearsing instrumental groups. Music literature for typical instrumental groups in schools.

MUE 510 Practicum in Children's Choir 1-3

Develop understanding, expertise, and practical experience working with a children's choir through score analysis, rehearsal observations, and conducting experiences. In-depth study of choral music appropriate for children's choirs of varying levels.

MUE 516 Technology in Music Education 3

Philosophical foundation for marching bands. Lecture/lab format promoting discussion and practical application of skills necessary to organize, administer, and implement the high school band program successfully.

MUE 518 Marching Band Techniques 2 Y

Philosophical foundation for marching bands. Lecture/lab format promoting discussion and practical application of skills necessary to organize, administer, and implement the high school band program successfully. Music education majors or permission of instructor.

MUE 520 Teaching of Classical Guitar 1-2

Laboratory in guitar, emphasizing performance techniques, care of instrument, acoustical considerations, elementary ensemble performance, and practical demonstration of methods and materials for individual/group instruction. Upper division status or permission of instructor. Music majors only.

Music History And Literature

MHL 71 Weekly Student Convocation, Freshman 0-6 S

MHL 72 Weekly Student Convocation, Freshman 0-6 S

MHL 73 Weekly Student Convocation, Sophomore 0-6 S

MHL 74 Weekly Student Convocation, Sophomore 0-6 S

MHL 75 Weekly Student Convocation, Junior 0-6 S

MHL 76 Weekly Student Convocation, Junior 0-6 S

MHL 77 Weekly Student Convocation, Senior 0-6 S

MHL 78 Weekly Student Convocation 0-6 S

MHL 168 History of European Music before 1750 3 Y

Crosslisted with: HOM 266
European music before 1750 in its cultural and philosophical contexts. Extensive listening. Analytical focus on selected composers and works. Presupposes familiarity with musical notation, terms, and contexts.
PREREQ: HOM 165, 166.

MHL 185 Introduction to World Music 3

Crosslisted with: HOM 285
Introduction to world music in its social, political, and cultural contexts, with an emphasis on building listening and analytic skills. Intended primarily for music and music history and culture majors.

MHL 267 History of European Music from 1750-1945 3 Y

Crosslisted with: HOM 267
European music from 1750 to 1945 in its cultural and philosophical contexts. Extensive listening. Analytical focus on selected composers and works. Presupposes familiarity with musical notation, terms, and concepts.
PREREQ: HOM 165 OR 166 OR 266..

MHL 268 European and American Music Since 1945 3 Y

Crosslisted with: HOM 268
Major trends and figures in art music in the United States and Europe since 1945. Topics include nationalism, neoclassicism, serialism, indeterminacy, and minimalism. Assumes basic knowledge of music.
PREREQ: HOM 166.

MHL 364 History of American Popular Music 3 Y

Double Numbered with: MHL 664
Consideration of popular music in its changing cultural contexts. Social, psychological and political issues raised by successive genres. Additional work required of graduate students.

MHL 365 History of Rock Music 3 IR

A chronological survey course, studying the elements of rock music and its sociological implications.

MHL 466 History of Jazz 3 Y

Chronological survey. Roots of jazz through the present.

MHL 500 Selected Topics 1-3 SI

Selected aspect of music history or literature. Content and method of instruction may vary for each workshop. R

MHL 525 Survey of Keyboard Literature: 1650 to 1850 3 O

Historical survey of literature now performed on the piano, focusing on significant repertoire from 1650 to 1850 through performance, listening, and research.

MHL 526 Survey of Keyboard Literature: 1850 to Present 3 O

Historical survey of literature now performed on the piano, focusing on significant repertoire from ca. 1850 to the present through performance, listening, and research.

MHL 535 Orchestral Repertoire: 1600-1800 2

A comprehensive study of orchestral repertoire from 1600-1800. J. S. Bach to early Beethoven. Score analysis, composer biographies, cultural context and critical listening.

MHL 545 Aspects of Repertoire Preparation 2 Y

For instrumentalists, singers, pianists. Aspects of repertoire preparation; repertoire planning, score preparation, stylistic performance practice, harmonic listening, working in an ensemble, and stage presence. Learning theory and current performance psychology techniques.

MHL 546 Vocal Literature 3 O

For pianists and singers. Historical survey of art song repertoire through performance, listening, and research.
PREREQ: MHL 545.

MHL 548 Instrumental Literature 3 E

For pianists and instrumentalists. Historical survey of major chamber music repertoire through performance, listening, and research.
PREREQ: MHL 545.

MHL 566 Topics in Music Literature and Analysis 3 Y

Crosslisted with: MTC 566
Intensive focus on a composer, genre or stylistic development, to be chosen by the instructor. Emphasis on analytical understanding, aesthetic issues and interdisciplinary context. R2, 12 credits maximum

MHL 567 Survey of Choral Literature 2 Y

An overview of the major choral forms (e.g. motet, madrigal, oratorio), leading composers of choral music, and style periods from 1500 to the present. Emphasis on score study and listening.

MHL 568 Choral Literature for Elementary and Secondary Choirs 2-3 Y

Examination of choral repertoire for elementary and secondary school settings. Strategies for teachers to discriminate between examples of quality choral literature through musical analysis and the examination of suitable historical contexts and musical cultures.

MHL 578 Charles Ives: an American Original 3 IR

A presentation designed to acquaint the student with the musical and personal characteristics that produced the unique phenomenon in American music that is Charles Ives. In-depth study of his musical and literary work.

MHL 590 Independent Study 1-6 SI

Preparation of a project paper under guidance of a member of the appropriate faculty, who introduces student to tools of research. Presented for reading and grading to a group of three faculty, one of whom is the advisor.
R

Music Industry

MUI 10 Soyars Entertainment Leadership Lecture Series I 0-4

Features music industry leaders from the highest levels of business. These visiting faculty members will focus, in depth, on cutting edge issues as they relate to leadership in today's industry. R6

MUI 103 Music Industry Forum 0-6 S

New ideas, problems, issues, and trends are presented and discussed by scholars, local experts, and national leaders in the music industry. Music industry major or permission of instructor.

MUI 104 Music Industry Forum 0-6 S

New ideas, problems, issues, and trends are presented and discussed by scholars, local experts, and national leaders in the music industry. Music industry major or permission of instructor.

MUI 106 Survey of the Music Industry 2 Y

Creative and business aspects of industry. Historical/sociological aspects, recording, songwriting, publishing, copyright, performing rights, mechanical rights, performing artist, record companies, production, marketing, merchandising, mass media, and industry hardware.

MUI 203 Music Industry Forum 0-2 S

New ideas, problems, issues, and trends are presented and discussed by scholars, local experts, and national leaders in the music industry. Music industry major or permission of instructor.

MUI 204 Music Industry Forum 0-2 S

New ideas, problems, issues, and trends are presented and discussed by scholars, local experts, and national leaders in the music industry. Music industry major or permission of instructor.

MUI 205 Music Industry I 3 S

Historical, creative, sociological, and business aspects of music publishing, artist management, concert promotion, rights and licensing, agencies, unions and guilds, roles of creative and supporting professionals in each area. Music industry major or permission of instructor.

MUI 206 Music Industry II 3 S

Historical, creative, sociological, and business aspects of the recording industry, music management, arts advocacy, and concert music. Roles of creative and supporting professionals in each area. Music industry major or permission of instructor.

MUI 301 Record Production 3

The aesthetic and creative aspects of the record producer's role in crafting hits in collaboration with artist and repertoire personnel and the audio engineering team. Includes critical listening, the art of recording and the associated technologies and overviews of the creative process.

MUI 303 Music Industry Forum 1 S

New ideas, problems, issues, and trends are presented and discussed by scholars, local experts, and national leaders in the music industry. Music industry major or permission of instructor.

MUI 304 Music Industry Forum 1 S

New ideas, problems, issues, and trends are presented and discussed by scholars, local experts, and national leaders in the music industry. Music industry major or permission of instructor.

MUI 305 Music Industry and the Media 3 Y

Articles, advertising, and the media in public relations. Role of the artist, public relations representative, advertising company executive, and program director. Application of communication skills to professional tasks.

MUI 307 Studio Recording 3 Y

Theoretical, practical and creative aspects of current audio engineering practices. Recording studio design and acoustics, microphone theory, digital recording, mixing, editing and mastering. Extensive experience working in a modern music recording studio.

MUI 308 Live Sound and Concert Recording 3 Y

Fundamentals and techniques of live sound recording. Acoustics and microphone placement. Editing, mastering duplication, and packaging. Emphasis on recording concert music. Recording and archival projects. PREREQ: MUI 307.

MUI 310 Soyars Leadership Lecture Series 1

Double Numbered with: MUI 610
Features music industry leaders from the highest levels of the business. These visiting faculty members will focus, in depth, on cutting edge issues as they relate to leadership in today's industry. Additional work required of graduate students.

MUI 320 Syracuse University Recordings 1-3

Students operate university-owned music enterprises; producing and releasing recorded music; booking and promoting concerts, publishing and managing artists, etc. The structures of comparable commercial entities are examined. Permission of instructor. R3, 9 credits maximum

MUI 400 Selected Topics 1-3 SI

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

MUI 402 Current State of the Music Industry 2 S

Assigned projects requiring individual preparation and presentation. Emphasis on the current state of the music industry with implications for the future. Projects require interaction with local experts and national leaders.

MUI 403 Music Industry Forum 1 S

New ideas, problems, issues, and trends are presented and discussed by scholars, local experts, and national leaders in the music industry. Music industry major or permission of instructor.

MUI 404 Music Industry Forum 1 S

New ideas, problems, issues, and trends are presented and discussed by scholars, local experts, and national leaders in the music industry. Music industry major or permission of instructor.

MUI 405 Music Industry Law and Ethics 3 S

Legal aspects of music industry. Ethical considerations for management and artists. Study of domestic and international copyrights, contracts, labor agreements, conflicts of interest, licensing, trade practice regulations, mechanical rights, taxation, privacy, piracy, and payola. Music industry major or permission of instructor.

MUI 406 Topics in Music Industry 2 S

Intensive focus on a problem, issue or trend to be chosen by the instructor. Emphasis on technological developments, international music markets, and arts advocacy. Music industry major or permission of instructor.

MUI 408 Music Industry Practicum 1-5 S

Supervised music industry field experience in which a student's performance is measured against previously stated set of objectives and goals. Permission of Instructor.

Music Theory**MTC 51 Composition Seminar, Freshman 0-3**

Listening and discussion of creative issues and strategies in music composition. Two & four guest presentations by visiting composers per semester. Required of all undergraduate composition majors.

MTC 52 Composition Seminar, Freshman 0-3

Listening and discussion of creative issues and strategies in music composition. Two & four guest presentations by visiting composers per semester. Required of all undergraduate composition majors.

MTC 53 Composition Seminar, Sophomore 0-3

Listening and discussion of creative issues and strategies in music composition. Two & four guest presentations by visiting composers per semester. Required of all undergraduate composition majors.

MTC 54 Composition Seminar, Sophomore 0-3

Listening and discussion of creative issues and strategies in music composition. Two & four guest presentations by visiting composers per semester. Required of all undergraduate composition majors.

MTC 55 Composition Seminar, Junior 0-3

Listening and discussion of creative issues and strategies in music composition. Two & four guest presentations by visiting composers per semester. Required of all undergraduate composition majors.

MTC 56 Composition Seminar, Junior 0-3

Listening and discussion of creative issues and strategies in music composition. Two & four guest presentations by visiting composers per semester. Required of all undergraduate composition majors.

MTC 57 Composition Seminar, Senior 0-3

Listening and discussion of creative issues and strategies in music composition. Two & four guest presentations by visiting composers per semester. Required of all undergraduate composition majors.

MTC 58 Composition Seminar, Senior 0-3

Listening and discussion of creative issues and strategies in music composition. Two & four guest presentations by visiting composers per semester. Required of all undergraduate composition majors.

MTC 125 Introductory Music Theory 3 Y

Crosslisted with: HOM 125
Elementary harmony, form and counterpoint through writing and listening. For non-majors and music theatre majors only.

MTC 126 Introductory Music Theory 3 Y

Crosslisted with: HOM 126
Elementary harmony, form and counterpoint through writing and listening. For non-majors and music theatre majors only.

MTC 145 Diatonic Harmony I 3 Y

Music fundamentals. Elementary counterpoint. Basic principles of diatonic harmony, voice leading and analysis. All diatonic triads and their inversions. Primarily for music majors.

MTC 146 Diatonic Harmony II 3 Y

Diatonic harmony and voice leading continued. Seventh chords. Nonharmonic tones. Common chord modulation. Melody harmonization. Analysis of music literature. PREREQ: MTC 145.

MTC 147 Ear Training I 1 Y

Sight singing with diatonic melodies. Rhythmic reading and dictation with simple and compound meter. Melodic and harmonic dictation using all diatonic triads and their inversions.

MTC 148 Ear Training II 1 Y

Sight singing with diatonic melodies continued. Rhythmic reading and dictation with triplet subdivisions, hemiola, and syncopation. Melodic and harmonic dictation using seventh chords and non-harmonic tones. PREREQ: MTC 147.

MTC 155 Composition I 1-2 S

Introductory composition. Exploration of contemporary compositional methods, emphasizing solo works and works for small ensembles. Open to students with evidence of previous compositional experience. Required of music students planning to major in composition. Permission of instructor

MTC 156 Composition I 1-2 S

Introductory composition. Exploration of contemporary compositional methods, emphasizing solo works and works for small ensembles. Open to students with evidence of previous compositional experience. Required of music students planning to major in composition. Permission of instructor

MTC 225 Sight-singing for Non Music Majors I 1

Sight-singing; diatonic melodies, popular songs. Rhythmic reading and dictation with simple and compound meter. Melodic and harmonic dictation using all diatonic triads and their inversions. For non music majors only. PREREQ: MTC 126.

MTC 226 Sight-singing for Non Music Majors II 1

Continuation of MTC 225. PREREQ: MTC 225.

MTC 245 Chromatic Harmony I 3 Y

Chromatic harmony and voice leading. Secondary dominants, altered chords and all forms of modulation. Introduction to musical form. Analysis of repertoire through early 19th century. PREREQ: MTC 146.

MTC 246 Chromatic Harmony II 3 Y

Chromatic harmony continued. Late 19th century chromaticism, 20th century methods. Analysis of repertoire from 19th and 20th centuries. PREREQ: MTC 245.

MTC 247 Ear Training III 1 Y

Sight singing melodies with chromatic alterations and modulation. Rhythmic reading and dictation with quintuplet and septuplet subdivisions. Melodic and harmonic dictation using secondary dominants, altered chords and modulation. PREREQ: MTC 148.

MTC 248 Ear Training IV 1 Y

Sight singing and dictation with highly chromatic and nontonal melodies. Rhythmic reading and dictation with complex meter and changes in meter. Melodic and harmonic dictation using nontonal harmony. PREREQ: MTC 247.

MTC 255 Composition II 1-2 Y

Continuation of Composition I. Primarily for students planning to major in composition. PREREQ: MTC 155, 156.

MTC 256 Composition II 1-2 Y

Continuation of Composition I. Primarily for students planning to major in composition. PREREQ: MTC 155, 156.

MTC 300 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

MTC 355 Composition III 1-4 S

Advanced composition with emphasis on larger forms and works for larger ensembles. Open only to composition majors. PREREQ: MTC 155, 156, 255, 256.

MTC 356 Composition III 1-4 S

Advanced composition with emphasis on larger forms and works for larger ensembles. Open only to composition majors. PREREQ: MTC 155, 156, 255, 256.

MTC 400 Selected Topics 1-3 SI

Exploration of topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester.

MTC 410 Undergraduate Teaching Experience 0-2

Students teach help sections of undergraduate theory classes. Meet with professor to discuss pedagogy and techniques. Register for one credit for each two hours with students. Does not satisfy upper division theory elective requirement. PREREQ: MTC 246, 248.

MTC 417 Instrumentation 2 IR

Ranges and idiomatic uses of band and orchestral instruments. Elementary scoring for band and orchestra with reference to typical instrumental groups available in schools.

MTC 418 Choral Arranging 2 IR

Ranges and idiomatic uses of wind, percussion, and string instruments in bands and orchestras and of voices in choral ensembles and choirs. Elementary scoring for choral combination instrumental and choral groups.

MTC 455 Composition IV 2-4 S

Preparation of works sufficient in scope and technical advancement for senior recital. Open to senior composition majors.

MTC 456 Composition IV 2-4 S

Preparation of works sufficient in scope and technical advancement for senior recital. Open to senior composition majors.

MTC 500 Workshop In Music Theory 1-3 SI

Selected aspect of music theory. Content and method of instruction may vary for each workshop. R1, 6 credits maximum

MTC 535 Orchestration 3 O

Scoring for individual instruments and small ensembles. Analysis of selected instrumental compositions. PREREQ: MTC 246.

MTC 540 Survey of Basic Theory 1-3 Y

Review of music fundamentals, tonal harmony, and aural skills. Entering graduate students failing written portion of theory diagnostic exam attend classes on fundamentals and harmony. Those failing aural skills portion attend ear training classes. Passing this course satisfies diagnostic exam requirements. Not applicable to any degree.

MTC 545 Counterpoint 3 SI

Grounding in species counterpoint and 16th-century practice, moving into a comprehensive study of contrapuntal techniques through the 20th century. PREREQ: MTC 246.

MTC 546 Analysis of Contemporary Music 3 Y

Twentieth-century compositional methods, analysis of selected works. Introduction to 12-tone set theory.
PREREQ: MTC 246.

MTC 550 Composition 1-2 S

For students not majoring in composition. Permission of instructor

MTC 551 Songwriting 3 Y

A comprehensive approach to the craft of popular songwriting. Analysis includes historical perspectives, song form, style, content, lyric writing, lead sheet and demo creation, copyright, recording, and marketing techniques.

MTC 552 Studio Arranging 3 IR

Scoring and arranging for film, video, and recording. Popular genres. Miking, mixing, overdubbing, studio effects, synchronization with visual media.
PREREQ: MTC 535.

MTC 554 Jazz Composing and Arranging 3 SI

Jazz theory. Scoring with standard and nonstandard instrumental voicings. Preparation of charts for big band and smaller ensembles.
PREREQ: MTC 535.

MTC 555 Jazz Improvisation I 1 S

Beginning jazz theory; simple harmonic functions. Improvisation with Ionian, Dorian, and Mixolydian modes. Arranging for small ensembles. Permission of instructor.

MTC 556 Jazz Improvisation II 1 S

Improvisation with II to V progressions, diminished chords, augmented triads, and related scales. Composing and arranging for small ensembles.
PREREQ: MTC 555.

MTC 557 Jazz Improvisation III 1 S

Improvisation with half-diminished seventh chord and related scale. Application of improvisational techniques to pop and jazz tunes. Recordings and transcriptions of major artists. Preparation of charts for larger ensembles.
PREREQ: MTC 556.

MTC 558 Jazz Improvisation IV 1 S

Improvisation with pentatonic and lydian scales and turn-around patterns. Improvisational principles using chord scales, guide tones, and other techniques. Preparation of charts for larger ensembles.
PREREQ: MTC 557.

MTC 560 Electronic Music Composition 3 S

Introduction to electronic music synthesis. Composition of brief studies using a variety of studio techniques. Students repeating for credit work independently on larger projects. R

MTC 566 Topics in Music Literature and Analysis 3 Y

Crosslisted with: MHL 566
Intensive focus on a composer, genre or stylistic development, to be chosen by the instructor. Emphasis on analytical understanding, aesthetic issues and interdisciplinary context. R2, 12 credits maximum

MTC 590 Independent Study 1-6 SI

Preparation of a project paper under guidance of a member of the appropriate faculty, who introduces the student to tools of research. Presented for reading and grading to a group of three faculty, one of whom is the advisor.

Oboe

OBO 130 Oboe Instruction 1-4 S
For non-music students.

OBO 135 Oboe Instruction 1-4 S
For music students.

OBO 136 Oboe Instruction 1-4 S
For music students.

OBO 230 Oboe Instruction 1-4 S
For non-music students.

OBO 235 Oboe Instruction 1-4 S
For music students.

OBO 236 Oboe Instruction 1-4 S
For music students.

OBO 330 Oboe Instruction 1-4 S
For non-music students.

OBO 335 Oboe Instruction 1-4 S
For music students.

OBO 336 Oboe Instruction 1-4 S
For music students.

OBO 339 Performance Honors in Oboe 1-4 S

OBO 430 Oboe Instruction 1-4 S
For non-music students.

OBO 435 Oboe Instruction 1-4 S
For music students.

OBO 436 Oboe Instruction 1-4 S
For music students.

OBO 439 Performance Honors in Oboe 1-4 S

OBO 530 Oboe Instruction 1-4 S
For non-music students.

OBO 535 Oboe Instruction 1-4 S
For music students.

OBO 536 Oboe Instruction 1-4 S
For music students.

Organ

ORG 110 Organ Instruction 1-4 S
For non-music students.

ORG 115 Organ Instruction 1-4 S
For music students.

ORG 116 Organ Instruction 1-4 S
For music students.

ORG 210 Organ Instruction 1-4 S
For non-music students.

ORG 215 Organ Instruction 1-4 S
For music students.

ORG 216 Organ Instruction 1-4 S
For music students.

ORG 310 Organ Instruction 1-4 S
For non-music students.

ORG 315 Organ Instruction 1-4 S
For music students.

ORG 316 Organ Instruction 1-4 S
For music students.

ORG 319 Performance Honors in Organ 1-4 S

ORG 410 Organ Instruction 1-4 S
For non-music students.

ORG 415 Organ Instruction 1-4 S
For music students.

ORG 416 Organ Instruction 1-4 S
For music students.

ORG 419 Performance Honors in Organ 1-4 S

ORG 510 Organ Instruction 1-4 S
For non-music students.

ORG 515 Organ Instruction 1-4 S
For music students.

ORG 516 Organ Instruction 1-4 S
For music students.

Painting

PTG 203 Painting and Drawing for Non-Art Majors 1-3 S

Crosslisted with: DRW 203
Fundamental concepts for techniques of painting and drawing. Open to non-art students only. May not be used for credit toward B.F.A. except by petition to Department of Studio Arts.

PTG 204 Painting and Drawing for Non-Art Majors 1-3 S

Crosslisted with: DRW 204
Fundamental concepts for techniques of painting and drawing. Open to non-art students only. May not be used for credit toward B.F.A. except by petition to Department of Studio Arts.

PTG 255 Figure Drawing 2-3 S

Crosslisted with: DRW 245
Human figure as subject and tool for drawing ideas. Figure composition, historical significance, drawing media.
PREREQ: FND 114.

PTG 256 Figure Drawing 2-3 S

Crosslisted with: DRW 246
Human figure as subject and tool for drawing ideas. Figure composition, historical significance, drawing media.
PREREQ: FND 114.

PTG 281 Introductory Painting 2-3 Y

Figurative and nonfigurative painting in oils or acrylics as the basis for study of color and form. Materials and approaches.
PREREQ: FND 114.

PTG 282 Introductory Painting 2-3 Y

Figurative and nonfigurative painting in oils or acrylics as the basis for study of color and form. Materials and approaches.
PREREQ: FND 114.

PTG 283 Painting, Figure and Portrait 2-3 IR

Nude and costumed figure study, portrait painting. Painting media.
PREREQ: FND 114.

PTG 284 Painting, Figure and Portrait 2-3 IR

Nude and costumed figure study, portrait painting. Painting media.
PREREQ: FND 114.

PTG 285 Color and Pictorial Design 3 SI

Organization of pictorial ideas and form. Use of various painting media. Color, its perception, function, and application.

PTG 300 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

PTG 353 Anatomy 3 IR

Crosslisted with: DRW 353
The skeleton, construction of the human body, and interpretation in drawing.
PREREQ: FND 114.

PTG 354 Anatomy 3 IR

Crosslisted with: DRW 354
The skeleton, construction of the human body, and interpretation in drawing.
PREREQ: FND 114.

PTG 355 Intermediate Drawing 2-3 S

Crosslisted with: DRW 355
Continuing development of critical awareness through exploration of ideas and media. Components of pictorial structure and expression.
PREREQ: PTG 255, 256.

PTG 356 Intermediate Drawing 2-3 S

Crosslisted with: DRW 356
Continuing development of critical awareness through exploration of ideas and media. Components of pictorial structure and expression.
PREREQ: PTG 255, 256.

PTG 357 Nature Drawing 3 SI

Forms in nature and research in the design of natural forms.
PREREQ: FND 114.

PTG 358 Nature Drawing 3 SI

Forms in nature and research in the design of natural forms.
PREREQ: FND 114.

PTG 381 Intermediate Painting 3 S

Continuation of PTG 281,282. Problems in pictorial organization in oil, acrylics, and related materials. Historical and personal understanding of pictorial intention.
PREREQ: PTG 281, 282.

PTG 382 Intermediate Painting 3 S

Continuation of PTG 281,282. Problems in pictorial organization in oil, acrylics, and related materials. Historical and personal understanding of pictorial intention.
PREREQ: PTG 281, 282.

PTG 385 Painting Materials and Techniques 3 IR

Pigments, grounds, media, and methods of painting. Lectures and laboratory.

PTG 387 Watercolor 2-3 S

Still life, interior, and landscape painting in watercolor.
PREREQ: FND 114.

PTG 388 Watercolor 2-3 S

Still life, interior, and landscape painting in watercolor.
PREREQ: FND 114.

PTG 455 Advanced Drawing 2-3 Y

Crosslisted with: DRW 455
Historical awareness. Relation of drawing to major areas of study. Philosophical development in the use of personal imagery and techniques.
PREREQ: PTG 355, 356.

PTG 456 Advanced Drawing 2-3 Y

Crosslisted with: DRW 456
Historical awareness. Relation of drawing to major areas of study. Philosophical development in the use of personal imagery and techniques.
PREREQ: PTG 355, 356.

PTG 481 Advanced Painting 3 S

Continued studio development of ideas objectives, self-critical attitude, and approach to painting.
PREREQ: PTG 381, 382.

PTG 482 Advanced Painting 3 S

Continued studio development of ideas objectives, self-critical attitude, and approach to painting.
PREREQ: PTG 381, 382.

PTG 485 Advanced Pictorial Design 3 IR

Independent research.
PREREQ: PTG 285.

PTG 487 Landscape Painting 3 SI

Outdoor painting in oil. Composition problems.
PREREQ: PTG 281, 282.

PTG 503 Drawing and Painting for Non-Art Majors 1-3 S

Crosslisted with: DRW 503
Fundamental concepts and techniques of painting and drawing.

PTG 504 Drawing and Painting for Non-Art Majors 1-3 S

Crosslisted with: DRW 504
Fundamental concepts and techniques of painting and drawing.

PTG 555 Drawing Research 1-6 S

Crosslisted with: DRW 555
Drawing as an expression and creative art form.
PREREQ: PTG 455, 456.

PTG 582 Painting Research 1-6 S

Advanced research.
PREREQ: PTG 481, 482.

PTG 585 Painting Materials Techniques 1-3 IR

Advanced study in use of studio materials and techniques used by painters; pigments, binders, for oil paint, acrylics, polymer resins, casein, pastels, water color, egg tempera, fresco. Independent research problems are assigned.

Pedagogy Of Theory

PDG 519 Vocal Pedagogy 2 Y

Voice science: structure of the vocal tract, acoustics, special equipment. Voice building: breath management, positioning of vocal tract, registration, placement, voice types, exercises. Laboratory experience. Four semesters of applied voice.

PDG 520 Piano Pedagogy Workshop 1 IR

Philosophy and psychology in piano teaching through analysis and performance of elementary and secondary materials. Music by recognized composers.

PDG 527 Piano Pedagogy 2 IR

Philosophies and psychology of piano teaching. Materials for beginning and intermediate students in both individual and class teaching. Additional work required of graduate students.

PDG 530 Workshop in Teaching of Strings 1-2 IR

Principles, methods, and problems associated with teaching string instruments to young people individually and in groups. R

PDG 538 Violin Pedagogy 1 IR

Violin teaching: lecture on procedure for both class and individual instruction, attendance and observation at regular class meetings, and practical teaching by pedagogy students.

Percussion

PRC 110 Percussion Instruction 1-4 S
For non-music students.

PRC 115 Percussion Instruction 1-4 S
For music students.

PRC 116 Percussion Instruction 1-4 S
For music students.

PRC 210 Percussion Instruction 1-4 S
For non-music students.

PRC 215 Percussion Instruction 1-4 S
For music students.

PRC 216 **Percussion Instruction 1-4 S**
For music students.

PRC 310 **Percussion Instruction 1-4 S**
For non-music students.

PRC 315 **Percussion Instruction 1-4 S**
For music students.

PRC 316 **Percussion Instruction 1-4 S**
For music students.

PRC 319 **Performance Honors in Percussion 1-4 S**

PRC 410 **Percussion Instruction 1-4 S**
For non-music students.

PRC 415 **Percussion Instruction 1-4 S**
For music students.

PRC 416 **Percussion Instruction 1-4 S**
For music students.

PRC 419 **Performance Honors in Percussion 1-4 S**

PRC 510 **Percussion Instruction 1-4 S**
For non-music students.

PRC 515 **Percussion Instruction 1-4 S**
For music students.

PRC 516 **Percussion Instruction 1-4 S**
For music students.

Piano

PNO 120 **Piano Instruction 1-4 S**
For non-music students.

PNO 121 **Keyboard Skills I 1 S**
Development of technique and proficiency; to strengthen theory, ear training, and keyboard harmony skills. Placement audition.

PNO 122 **Keyboard Skills I 1 S**
Development of technique and proficiency; to strengthen theory, ear training, and keyboard harmony skills. Placement audition.

PNO 125 **Piano Instruction 1-4 S**
For music students.

PNO 126 **Piano Instruction 1-4 S**
For music students.

PNO 220 **Piano Instruction 1-4 S**
For non-music students.

PNO 221 **Keyboard Skills II 1 S**
Development of technique and proficiency; to strengthen theory, ear training, and keyboard harmony skills. Placement audition.

PNO 222 **Keyboard Skills II 1 S**
Development of technique and proficiency; to strengthen theory, ear training, and keyboard harmony skills. Placement audition.

PNO 225 **Piano Instruction 1-4 S**
For music students.

PNO 226 **Piano Instruction 1-4 S**
For music students.

PNO 320 **Piano Instruction 1-4 S**
For non-music students.

PNO 325 **Piano Instruction 1-4 S**
For music students.

PNO 326 **Piano Instruction 1-4 S**
For music students.

PNO 329 **Performance Honors in Piano 1-4 S**

PNO 420 **Piano Instruction 1-4 S**
For non-music students.

PNO 425 **Piano Instruction 1-4 S**
For music students.

PNO 426 **Piano Instruction 1-4 S**
For music students.

PNO 429 **Piano/Perform Honors 1-4 S**

PNO 520 **Performance Honors in Piano 1-4 S**
For non-music students.

PNO 525 **Piano Instruction 1-4 S**
For music students.

PNO 526 **Piano Instruction 1-4 S**
For music students.

Printmaking

PRT 251 **Printmaking: Introductory Intaglio 3 Y**
Crosslisted with: DRW 251
Etching, drypoint, aquatint, and a variety of experimental approaches to plate making and printing. Experience in drawing and two-dimensional problem solving.

PRT 252 **Printmaking: Introductory Intaglio 3 Y**
Crosslisted with: DRW 252
Etching, drypoint, aquatint, and a variety of experimental approaches to plate making and printing. Experience in drawing and two-dimensional problem solving.

PRT 253 **Printmaking: Introductory Lithography 3 Y**
Crosslisted with: DRW 253
Basic technical processes of stone lithography, drawing to editioning. All aspects of direct drawing and transfer methods, etching, and printing processes. Experience in drawing and two-dimensional problem solving.

PRT 254 **Printmaking: Introductory Lithography 3 Y**
Crosslisted with: DRW 254
Basic technical processes of stone lithography, drawing to editioning. All aspects of direct drawing and transfer methods, etching, and printing processes. Experience in drawing and two-dimensional problem solving.

PRT 255 **Printmaking: Introductory Serigraphy 3 Y**
Crosslisted with: DRW 255
Papercut stencil, handcut stencil, photographic kodalith and film-positive photo stencil, various experimental techniques, and ink formulas. Drawing and two-dimensional problem solving.

PRT 256 **Printmaking: Introductory Serigraphy 3 Y**
Crosslisted with: DRW 256
Papercut stencil, handcut stencil, photographic kodalith and film-positive photo stencil, various experimental techniques, and ink formulas. Drawing and two-dimensional problem solving.

PRT 257 **Printmaking: Introductory Relief 3 Y**
Crosslisted with: DRW 257
Investigation of the process. Cutting and printing the raised surface of various materials, including wood, linoleum, plaster, masonite, and boxwood. Experience in drawing and two-dimensional problem solving.

PRT 258 **Printmaking: Introductory Relief 3 Y**
Crosslisted with: DRW 258
Investigation of the process. Cutting and printing the raised surface of various materials, including wood, linoleum, plaster, masonite, and boxwood. Experience in drawing and two-dimensional problem solving.

PRT 351 **Printmaking, Intermediate Workshop 3 Y**
Crosslisted with: DRW 351
Individual development in one or more printing processes: relief, intaglio, lithography, silk screen. Problem solving through drawing and development of imagery.

PRT 352 **Printmaking, Intermediate Workshop 3 Y**
Crosslisted with: DRW 352
Individual development in one or more printing processes: relief, intaglio, lithography, silk screen. Problem solving through drawing and development of imagery.

PRT 430 **Senior Portfolio and Research Paper: Printmaking 3 S/**
Required of seniors in printmaking. Topics can be historical, critical, or process-related. Senior thesis exhibition required and presented final semester of senior year.

PRT 451 **Printmaking: Advanced Workshop 3 Y**
Crosslisted with: DRW 451
Individual research. One or more processes, emphasizing color printing and integration of advanced printmaking methods and materials. Resolution of concept and imagery through drawing and problem-solving skills.

PRT 452 **Printmaking: Advanced Workshop 3 Y**
Crosslisted with: DRW 452
Individual research. One or more processes, emphasizing color printing and integration of advanced printmaking methods and materials. Resolution of concept and imagery through drawing and problem-solving skills.

PRT 551 **Hand Papermaking Workshop 3 Y**
Basic skills in hand papermaking in two- and three-dimensional form. Student works independently but attends group demonstrations and discussions on scheduled day of class.

PRT 552 Hand Paper Print/Book Workshop 3 Y

Continued investigation in hand papermaking, simple bookbinding, and letterpress printing.

Recorder

RDR 120 **Recorder Instruction 1-4 S**
For non-music students.

RDR 125 **Recorder Instruction 1-4 S**
For music students.

RDR 126 **Recorder Instruction 1-4 S**
For music students.

RDR 220 **Recorder Instruction 1-4 S**
For non-music students.

RDR 225 **Recorder Instruction 1-4 S**
For music students.

RDR 226 **Recorder Instruction 1-4 S**
For music students.

RDR 320 **Recorder Instruction 1-4 S**
For non-music students.

RDR 325 **Recorder Instruction 1-4 S**
For music students.

RDR 326 **Recorder Instruction 1-4 S**
For music students.

RDR 329 **Performance Honors in Recorder 1-4 S**

RDR 420 **Recorder Instruction 1-4 S**
For non-music students.

RDR 425 **Recorder Instruction 1-4 S**
For music students.

RDR 426 **Recorder Instruction 1-4 S**
For music students.

RDR 429 **Performance Honors in Recorder 1-4 S**

RDR 520 **Recorder Instruction 1-4 S**
For non-music students.

RDR 525 **Recorder Instruction 1-4 S**
For music students.

RDR 526 **Recorder Instruction 1-4 S**
For music students.

Recording And Allied Entertainment

RAE 411 Global Commerce and Law for the Music Entertainment Industry 3 Y

A global overview of music industry law for entertainment business students. Issues, treaties, court cases, contracts and the mechanics of international commerce. Junior standing or above.
PREREQ: MUI 205 AND MUI 206.

RAE 470 Experience Credit 1-6

Participation in a discipline or subject related experience. Student must be evaluated by written or oral reports or an examination. Permission in advance with the consent of the department chairperson, instructor, and dean. Limited to those in good academic standing.

RAE 490 Independent Study 1-6

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department.

Saxophone

SXP 150 **Saxophone/Non Music Maj 1-4 S**
For non-music students.

SXP 155 **Saxophone/Music Majors 1-4 S**
For music students.

SXP 156 **Saxophone/Music Majors 1-4 S**
For music students.

SXP 250 **Saxophone/Non Music Maj 1-4 S**
For non-music students.

SXP 255 **Saxophone/Music Majors 1-4 S**
For music students.

SXP 256 **Saxophone/Music Majors 1-4 S**
For music students.

SXP 350 **Saxophone/Non Music Maj 1-4 S**
For non-music students.

SXP 355 **Saxophone/Music Majors 1-4 S**
For music students.

SXP 356 **Saxophone/Music Majors 1-4 S**
For music students.

SXP 359 **Saxophone/Perform Honors 1-4 S**

SXP 450 **Saxophone/Non Music Maj 1-4 S**
For non-music students.

SXP 455 **Saxophone/Music Majors 1-4 S**
For music students.

SXP 456 **Saxophone/Music Majors 1-4 S**
For music students.

SXP 459 **Saxophone/Perform Honors 1-4 S**

SXP 550 **Saxophone/Non Music Maj 1-4 S**
For non-music students.

SXP 555 **Saxophone/Music Majors 1-4 S**
For music students.

SXP 556 **Saxophone/Music Majors 1-4 S**
For music students.

Sculpture

SCU 207 **Sculpture Survey 3 S**
Mold making, clay modeling; composition problems in three dimensions with several sculpture media. For non-art students.

SCU 208 **Sculpture Survey 3 S**
Mold making, clay modeling; composition problems in three dimensions with several sculpture media. For non-art students.

SCU 295 **Introductory Sculpture 2-3 S**
Mold making, clay modeling; composition problems in three dimensions with several sculpture media.

SCU 296 **Introductory Sculpture 2-3 S**
Mold making, clay modeling; composition problems in three dimensions with several sculpture media.

SCU 391 Wood and Mixed-Media Research 1-9 S

Double Numbered with: SCU 591
Sculptural uses of wood. Lathe work, lamination, and carving. Combination of wood and other sculptural materials. Individual research in conjunction with course expectations for students taking SCU 591.

SCU 392 Plastics Techniques Research 1-9 S

Double Numbered with: SCU 592
Plastics and their potential sculptural uses. Vacuum-formed plastic sheet, casting resins, and fiberglass lay-up. Individual research in conjunction with course expectations for students taking SCU 592.

SCU 395 Intermediate Sculpture 2-3 S

Direct carving in stone and wood. Introduction to casting. Modeling, advanced composition problems.
PREREQ: SCU 295, 296.

SCU 396 Intermediate Sculpture 2-3 S

Direct carving in stone and wood. Introduction to casting. Modeling, advanced composition problems.
PREREQ: SCU 295, 296.

SCU 495 Advanced Sculpture 3 S

Advanced research.
PREREQ: SCU 395, 396.

SCU 496 Advanced Sculpture 3 S

Advanced research.
PREREQ: SCU 395, 396.

SCU 507 Sculpture Survey 1-9 S

Modeling from life, casting, composition problems.
PREREQ: SCU 207, 208.

SCU 508 Sculpture Survey 1-9 S

Modeling from life, casting, composition problems.
PREREQ: SCU 207, 208.

SCU 591 Wood and Mixed-Media Research 1-9 S

Double Numbered with: SCU 391
Sculptural uses of wood. Lathe work, lamination, and carving. Combination of wood and other sculptural materials. Individual research in conjunction with course expectations for students taking SCU 591.

SCU 592 Plastics Techniques Research 1-9 S

Double Numbered with: SCU 392
Plastics and their potential sculptural uses. Vacuum-formed plastic sheet, casting resins, and fiberglass lay-up. Individual research in conjunction with course expectations for students taking SCU 592.

SCU 596 Sculpture Research 1-9 S

Advanced research.
PREREQ: SCU 295, 296.

Studio Arts

STA 321 Flat (Stained) Glass Workshop 3 IR

Glass cutting and basic construction skills covered with emphasis on original design. Color theory. Projects include conventional and contemporary methods of flat glass design and construction. Experimentation with traditional and innovative material and fabrication.

STA 350 Introduction to Glass Casting, Fusing and Slumping 3 IR

Hot glass course focusing on casting, fusing, and slumping techniques. Materials include a rich palette of sheet glass, frits, stringers, powders, confetti, and cullet. Introduction to design and firing techniques.

STA 531 Professional Practice in the Arts 3 Y

Provide students with the necessary skills and information to function in their professional contexts/interactions. Explore numerous opportunities for artists. Course covers: resumes, copyright, health/safety practices, contracts, exhibitions, grants, taxes, job opportunities, etc.

STA 553 Decoding Images of Representation 3

Seminar/critique discusses and applies theoretical writings on the use of images and constructed representations of gender, culture, and power to the production of studio artists' work. Critiques based on readings and discussions. Laboratory required.

Surface Pattern Design

SPD 243 Repeats and Techniques I 3 Y

Two-dimensional design for printed decorative surfaces employing repeats, tools, terminology, design processes, and presentation methods for home furnishings. PREREQ: FAS 155 AND FND 103, 104, 105 OR 106.

SPD 244 Repeats and Techniques II 3 Y

Continuation of SPD 243. Advanced repeats, layouts, and rendering techniques to develop coordinates/groups for engineered and repetitive designs suitable for home furnishing and apparel products. PREREQ: SPD 243.

SPD 245 Creative Media and Design Techniques 3

Traditional and experimental techniques used to render in a variety of media, including photographic imagery, texturing, faux, and botanicals for conceptual design studies.

SPD 246 Analysis of Color for Production 3

Color theory for decorative design. Effect of color selection, media, and rendering techniques on production. Introduction to professional color research.

SPD 327 Introduction to Textile Printing 3 Y

Screen printing repetitive and engineered designs on fabric. Design process, color formulas, and screen preparation. PREREQ: SPD 243, 244.

SPD 343 Home Furnishings I 3 Y

Designing varied groups of decorative patterns based on end-uses for residential environments. Advanced repeats, rendering, and presentation techniques. Introduction to market, production methods. PREREQ: SPD 244.

SPD 367 Introduction to Computer Aided Pattern Design 3 Y

Digital design for the development of decorative patterns. Motif manipulation, color selection, repeat techniques, and presentation methods. PREREQ: SPD 244.

SPD 445 Applied Design Concepts I 3

Development of cross-product groups suitable for various applications within the surface pattern design industries. Research of traditional, current, and projected design and color trends. Introduction to design for technical woven, paper products, apparel, and flooring. PREREQ: SPD 343.

SPD 446 Applied Design Concepts II 3

Individual research and development of cross-product groups suitable for various applications within industry. Students will develop individual goals for design creation of specialized decorative surface treatments. PREREQ: SPD 445.

SPD 447 Professional Practices 3 Y

Career opportunities; job search strategies; professional portfolio development; presentation, documentation, and review of administrative business practices in industry. PREREQ: SPD 343.

SPD 448 Senior Portfolio Collection 3 Y

Incorporation of color, design, and market factors for creating a complex line suitable for industry. A balanced portfolio collection will be developed based on individual student needs, goals, and interests. PREREQ: SPD 447.

SPD 527 Advanced Textile Printing 3

Individual research of advanced dyeing and printing methods. PREREQ: SPD 327.

SPD 537 Advanced Computer-Aided Pattern Design 3

Individual research of advanced computer-aided design methods. PREREQ: SPD 367.

SPD 541 Research Problems 1-6 SI

Advanced research in special areas of professional surface pattern design. Individual projects developed with instructor's consultation and guidance.

Transmedia

TRM 151 TransMedia Colloquium (History) 3

Introduction to the history of the media arts, including artists' use of photography, film, video, and digital media, extending into artists' use of television, audio, radio, the web, video games, and mediated performance. COREQ: TRM 153.

TRM 152 TransMedia Colloquium (Theory) 3

Examination of how theory has influenced the way artists use photography, film video, and digital media, extending into artists' use of television, audio, radio, the web, video games, and mediated performance. COREQ: TRM 154.

TRM 153 Studio Concepts 3

Introduces students to thinking critically and practically about time-based creative practices. Explores the use of digital media in concepts surrounding time/space, image/sound, interactivity/networks, and performance/movement. Students will work with photo, film, video, and computer. COREQ: TRM 151.

TRM 154 Interconnected Studios 3

The theory of interdisciplinary practices will be the focus of contemporary art making and intersection of time-based media in animation, interactive technologies, installation, and performance art. PREREQ: TRM 153; COREQ: TRM 152.

TRM 251 Intermediate TransMedia Studio 3

Builds on the basic tools and concepts introduced in TRM 153. Students explore thematic and topical problems in the media arts, while deepening their critical and technical skills. PREREQ: TRM 153, 154.

TRM 310 Literacy, Community and Media 3

Double Numbered with: TRM 610 This course brings University students into local public schools to offer instruction in media such as photography and video, along with writing exercises to develop projects that explore issues of identity, community and family.

TRM 316 Introduction to Visual Culture 3

Crosslisted with: ART 316, CRS 316 Introduction to critical approaches that illuminate how modes of visual culture function as rhetoric, commerce, art, and ideological expression. Examines how institutional frameworks shape global image circulation.

TRM 351 Advanced Transmedia Studio 3

This course will presume a technical ability which allows for more specialized topics of discussion/study. Students will be required to create projects in collaboration, exploring ideas in depth and understanding historical and critical precedents. PREREQ: TRM 251.

TRM 401 Physical Computing Research 3
The use of electronics, computers, and fabrication techniques of various materials for constructing interactive artworks that go beyond keyboard/mouse/screen relationships. Critical theory related to physical computing. PREREQ: CAR 132, SCU 295, AND SCU 392.

TRM 451 TransMedia Synthesis 3
Culmination of the transmedia experience for graduating seniors. Projects are intended to increase the self-awareness of artistic vision, honed from the flexibility and diversity of the transmedia curriculum. PREREQ: TRM 351.

Trombone

TRB 140 Trombone/Non Music Majors 1-4 S
For non-music students.

TRB 145 Trombone/Music Majors 1-4 S
For music students.

TRB 146 Trombone/Music Majors 1-4 S
For music students.

TRB 240 Trombone/Non Music Majors 1-4 S
For non-music students.

TRB 245 Trombone/Music Majors 1-4 S
For music students.

TRB 246 Trombone/Music Majors 1-4 S
For music students.

TRB 340 Trombone/Non Music Majors 1-4 S
For non-music students.

TRB 345 Trombone/Music Majors 1-4 S
For music students.

TRB 346 Trombone/Music Majors 1-4 S
For music students.

TRB 349 Trombone/Perform Honors 1-4 S

TRB 440 Trombone/Non Music Majors 1-4 S
For non-music students.

TRB 445 Trombone/Music Majors 1-4 S
For music students.

TRB 446 Trombone/Music Majors 1-4 S
For music students.

TRB 449 Trombone/Perform Honors 1-4 S

TRB 540 Trombone/Non Music Majors 1-4 S
For non-music students.

TRB 545 Trombone/Music Major 1-4 S
For music students.

TRB 546 Trombone/Music Major 1-4 S
For music students.

Trumpet

TRP 110 Trumpet/Non Music Majors 1-4 S
For non-music students.

TRP 115 Trumpet/Music Majors 1-4 S
For music students.

TRP 116 Trumpet/Music Majors 1-4 S
For music students.

TRP 210 Trumpet/Non Music Majors 1-4 S
For non-music students.

TRP 215 Trumpet/Music Majors 1-4 S
For music students.

TRP 216 Trumpet/Music Majors 1-4 S
For music students.

TRP 310 Trumpet/Non Music Majors 1-4 S
For non-music students.

TRP 315 Trumpet/Music Majors 1-4 S
For music students.

TRP 316 Trumpet/Music Majors 1-4 S
For music students.

TRP 319 Trumpet/Perform Honors 1-6 S

TRP 410 Trumpet/Non Music Majors 1-4 S
For non-music students.

TRP 415 Trumpet/Music Majors 1-4 S
For music students.

TRP 416 Trumpet/Music Majors 1-4 S
For music students.

TRP 419 Trumpet/Perform Honors 1-6 S

TRP 510 Trumpet/Non Music Majors 1-4 S
For non-music students.

TRP 515 Trumpet/Music Major 1-6 S
For music students.

TRP 516 Trumpet/Music Major 1-6 S
For music students.

Tuba

BTB 150 Tuba/Non Music Majors 1-4 S
For non-music students.

BTB 155 Tuba/Music Majors 1-4 S
For music students.

BTB 156 Tuba/Music Majors 1-4 S
For music students.

BTB 250 Tuba/Non Music Majors 1-4 S
For non-music students.

BTB 255 Tuba/Music Majors 1-4 S
For music students.

BTB 256 Tuba/Music Majors 1-4 S
For music students.

BTB 350 Tuba/Non Music Majors 1-4 S
For non-music students.

BTB 355 Tuba/Music Majors 1-4 S
For music students.

BTB 356 Tuba/Music Majors 1-4 S
For music students.

BTB 359 Tuba/Perform Honors 1-4 S

BTB 450 Tuba/Non Music Majors 1-4 S
For non-music students.

BTB 455 Tuba/Music Majors 1-4 S
For music students.

BTB 456 Tuba/Music Majors 1-4 S
For music students.

BTB 459 Tuba/Perform Honors 1-4 S

BTB 550 Tuba/Non Music Majors 1-4 S
For non-music students.

BTB 555 Tuba/Music Majors 1-4 S
For music students.

BTB 556 Tuba/Music Majors 1-4 S
For music students.

Viola

VLA 120 Viola/Non Music Majors 1-4 S
For non-music students.

VLA 125 Viola/Music Majors 1-4 S
For music students.

VLA 126 Viola/Music Majors 1-4 S
For music students.

VLA 220 Viola/Non Music Majors 1-4 S
For non-music students.

VLA 225 Viola/Music Majors 1-4 S
For music students.

VLA 226 Viola/Music Majors 1-4 S
For music students.

VLA 320 Viola/Non Music Majors 1-4 S
For non-music students.

VLA 325 Viola/Music Majors 1-4 S
For music students.

VLA 326 Viola/Music Majors 1-4 S
For music students.

VLA 329 Viola/Perform Honors 1-4 S

VLA 420 Viola/Non Music Majors 1-4 S
For non-music students.

VLA 425 Viola/Music Majors 1-4 S
For music students.

VLA 426 Viola/Music Majors 1-4 S
For music students.

VLA 429 Viola/Perform Honors 1-4 S

VLA 520 Viola/Non Music Majors 1-4 S
For non-music students.

VLA 525 Viola/Music Majors 1-4 S
For music students.

VLA 526 Viola/Music Majors 1-4 S
For music students.

Violin

VLN 110 Violin/Non Music Majors 1-4 S
For non-music students.

VLN 115 Violin/Music Majors 1-4 S
For music students.

VLN 116 Violin/Music Majors 1-4 S
For music students.

VLN 210 Violin/Non Music Majors 1-4 S
For non-music students.

VLN 215 Violin/Music Majors 1-4 S
For music students.

VLN 216 Violin/Music Majors 1-4 S
For music students.

VLN 310 Violin/Non Music Majors 1-4 S
For non-music students.

VLN 315 Violin/Music Majors 1-4 S
For music students.

VLN 316 Violin/Music Majors 1-4 S
For music students. R

VLN 319 Violin/Perform Honors 1-4 S

VLN 410 Violin/Non Music Majors 1-4 S
For non-music students.

VLN 415 Violin/Music Majors 1-4 S
For music students.

VLN 416 Violin/Music Majors 1-4 S
For music students.

VLN 419 Violin/Perform Honors 1-4 S

VLN 510 Violin/Non Music Majors 1-4 S
For non-music students.

VLN 515 Violin/Music Major 1-4 S
For music students.

VLN 516 Violin/Music Major 1-4 S
For music students.

Violoncello

VCO 130 Cello/Non Music Majors 1-4 S
For non-music students.

VCO 135 Cello/Music Majors 1-4 S
For music students.

VCO 136 Cello/Music Majors 1-4 S
For music students.

VCO 230 Cello/Non Music Majors 1-4 S
For non-music students.

VCO 235 Cello/Music Majors 1-4 S
For music students.

VCO 236 Cello/Music Majors 1-4 S
For music students.

VCO 330 Cello/Non Music Majors 1-4 S
For non-music students.

VCO 335 Cello/Music Majors 1-4 S
For music students.

VCO 336 Cello/Music Majors 1-4 S
For music students.

VCO 339 Cello/Perform Honors 1-4 S

VCO 430 Cello/Non Music Majors 1-4 S
For non-music students.

VCO 435 Cello/Music Majors 1-4 S
For music students.

VCO 436 Cello/Music Majors 1-4 S
For music students.

VCO 439 Cello/Perform Honors 1-4 S

VCO 530 Cello/Non Music Majors 1-4 S
For non-music students.

VCO 535 Cello/Music Majors 1-4 S
For music students.

VCO 536 Cello/Music Majors 1-4 S
For music students.

Voice

VOC 110 Voice/Non Music Major 1-4 S
For non-music students.

VOC 115 Voice/Music Majors 1-4 S
For performance majors.

VOC 116 Voice/Music Majors 1-4 S
For performance majors.

VOC 210 Voice/Non Music Majors 1-4 S
For non-music students.

VOC 215 Voice/Music Majors 1-4 S
For performance majors.

VOC 216 Voice/Music Majors 1-4 S
For performance majors.

VOC 310 Voice/Non Music Major 1-4 S
For non-music students.

VOC 315 Voice/Music Majors 1-4 S
For performance majors.

VOC 316 Voice/Music Majors 1-4 S
For performance majors.

VOC 319 Voice/Perform Honors 1-4 S

VOC 410 Voice/Non Music Majors 1-4 S
For non-music students.

VOC 415 Voice/Music Majors 1-4 S
For performance majors.

VOC 416 Voice/Music Major 1-4 S
For performance majors.

VOC 419 Voice/Perform Honors 1-4 S

VOC 510 Voice/Non Music Majors 1-4 S
For non-music students.

VOC 515 Voice/Music Majors 1-4 S
For performance majors.

VOC 516 Voice/Music Majors 1-4 S
For performance majors.

Faculty

James Abbott, Affiliate Artist
B.M., University of Miami School of Music, 1992
Recording engineering

Yasser Aggour, Assistant Professor
M.F.A., Yale University, 1999
Art photography

Edward Aiken, Associate Professor
Ph.D., Northwestern University, 1981
Art history, museum studies

Joseph Alberti, Assistant Professor
Ph.D. University of Texas
Voice and acting

Janet Ambrose, Associate Professor
M.A., Syracuse University, 1990
Textile design

Kevin Ames, Affiliate Artist
M.Mus., Syracuse University, 2004
Saxophone

Joshua Atkinson, Assistant Professor
Ph.D., University of Missouri-Columbia, 2004
Rhetorical theory, rhetorical criticism, rhetoric of globalization

Meg Aufmuth, Adjunct
B.S., Rochester Institute of Technology, 1976;
B.S., Syracuse University, 1989
Interior design

Carol Babiracki, Associate Professor
Ph.D., University of Illinois, 1991
Ethnomusicology, South Asian music and dance, ethnic and immigrant music and dance in the U.S., music of the Middle East

Karen Bakke, Associate Professor
M.F.A., Syracuse University, 1969
Textile design, cultural studies

Kyle Bass, Adjunct
M.F.A., Goddard College, 2006
Playwriting, theater history

Kathleen Baum, Adjunct
M.F.A., Syracuse University, 2000
Movement-based theater, Meyerhold's Theatrical Biomechanics

Peter Beasecker, Associate Professor
M.F.A., Alfred University, 1987
Ceramics

Anne Beffel, Associate Professor
M.F.A., University of Iowa, 1998
2-D creative processes, dimensional arts

Alyssa Blount, Affiliate Artist
M.M., Syracuse University, 2007
Violin

David Bowman, Adjunct
B.F.A., Syracuse University, 1993
Lighting design, theater technology

Cornelia Brewster, Affiliate Artist
M.M., University of Wisconsin-Madison, 1965
Flute

Janet Brown, Affiliate Artist
M.Mus., Syracuse University, 1993
Voice

Yvonne Buchanan, Assistant Professor
B.F.A., Parsons School of Design, 1977
Illustration

Michael Bull, Affiliate Artist
M.M., Syracuse University, 1977
Percussion

Don Buschmann, Adjunct
M.A., Southwest Missouri State University, 1977
Advanced practicum in stage management

Richard Buttny, Professor
Ph.D., University of Massachusetts, 1983
Intercultural communication, language, and social interaction

Lynn Capirsello, Assistant Professor
B.F.A., M.S., Syracuse University
Interior Design

Ronald Caravan, Affiliate Artist
D.M.A., Eastman School of Music, 1980
Saxophone, clarinet

Stephen Carlson, Associate Professor
M.F.A., Yale University, 1976
Dimensional arts

Donald Carr, Associate Professor
M.F.A., Cranbrook Academy of Art, 1992
Industrial and Interaction design

Edward Castilano, Affiliate Artist
B.M., Eastman School of Music, 1976
Symphonic repertory (double bass)

Bonnie Choi, Affiliate Artist
D.M.A., University of Michigan, 1993
Harpsichord

Gerardine Clark, Laura J. and L. Douglas
Meredith Professor
Ph.D., Indiana University, 1977
Acting, directing, dramatic literature, play analysis

James Clark, Associate Professor
M.A., Indiana University, 1971
Theater management, theater as a profession

Ann Clarke, Associate Professor
M.F.A., Rhode Island School of Design, 1994
Fiber arts

Deborah Coble, Affiliate Artist
M.M., University of Texas, 1974
Flute

Felix Cochren, Assistant Professor
Design/technical theater

Jill Coggiola, Affiliate Artist
D.M., Florida State University, 1994
Music education, saxophone, flute

Michael Coldren, Affiliate Artist
M.M., Arizona State University, 1988
Tuba, euphonium

Diana Coles, Adjunct
M.A., University of Missouri, Kansas City, 1967
Theater management

Alfred Collette, Professor Emeritus
Ph.D., Syracuse University, 1952
Museum studies

Todd Conover, Assistant Professor
B.S., Syracuse University, 1995
Fashion design

Robert Cooney, Associate Professor
B.F.A., Syracuse University, 1972
Communications design

Peter Crissey, A.I.A., Adjunct
B.Arch., Rensselaer Polytechnic Institute, 1967
Interior design

Susan D'Amato, Assistant Professor
M.F.A., University of North Carolina at Chapel Hill, 2000
Drawing

Robert Dacey, Associate Professor
B.F.A., Art Center College, Los Angeles, 1975
Drawing, illustration

Linda Daignault, Adjunct
M.A., Syracuse University, 2003
Public learning in museums

Gretchen Darrow, Adjunct
University of Connecticut, 1995
Costume and design technology

Diego Davidenko, Adjunct Instructor
M.M., Syracuse University, 2008
Music Theory

Timothy Davis-Reed, Professor of Practice
B.F.A., Syracuse University, 1985
Acting

Joshua Dekaney, Affiliate Artist
M.Mus., University of Missouri-Kansas City, 1998
Drumset, Brazilian Ensemble, drumline

Anne Demo, Assistant Professor
Ph.D., Pennsylvania State University, 2000
Visual rhetoric, immigration rhetoric, rhetorical theory

Roger DeMuth, Associate Professor
B.F.A., Rochester Institute of Technology, 1970
Illustration

Ron DeRutte, Adjunct
M.F.A., University of Maryland, 1989
Sculpture

Bill DiCosimo, Assistant Professor
M.Mus., University of Southern California, 1976
Jazz studies, music industry

Deborah Dohne, Associate Professor; Chair
M.F.A., Ohio State University, 1990
Dimensional arts, sculpture

Marion Dorfer, Associate Professor
M.F.A., Syracuse University, 1992
Surface pattern design

Jill Doscher, Adjunct
M.F.A., SUNY at Buffalo
2-D creative processes

Joseph Downing, Associate Professor
D.M., Northwestern University, 1985
Composition, music theory

Lawrence Drodz, Adjunct
M.F.A., Southern Methodist University
Theatre history, acting for non-majors

Doug DuBois, Associate Professor
M.F.A., San Francisco Art Institute, 1988
Photography

Craig Dudczak, Associate Professor
Ph.D., University of Kansas, 1984
Argumentation, communication studies,
persuasion

Dennis Earle, Adjunct Professor
M.Arch., University of Pennsylvania, 1990
Interior design

Douglas Easterly, Assistant Professor
M.F.A., University of Texas at Austin, 1998
Computer art

Robert Englert, Assistant Professor
B.F.A., Columbus College of Art and Design,
1996
Industrial design

Jonathan English, Affiliate Artist
M.Mus., Eastman School of Music, 1984
Voice

Bradley Ethington, Associate Professor,
Chair, Setnor School of Music; Associate
Director of Bands
D.M.A., University of Texas at Austin, 1995
Conducting

Sandra Faulkner, Assistant Professor
Ph.D., Pennsylvania State University, 1999
Interpersonal communication, cultural and
qualitative research methods

David Feldman, Adjunct
M.F.A., Brandeis University
Play analysis

Elizabeth Fowler, Assistant Professor
Ph.D., University of Minnesota, 2005
Art history

Thomas Friedmann, Adjunct
M.F.A., New York University, 1970 Film

Jon Garland, Affiliate Artist
B.Mus., The Julliard School, 1995
Horn

Matthew Gehring, Assistant Professor
M.F.A., University of Delaware
2001 Sculpture

Mary Giehl, Adjunct
M.F.A., Syracuse University, 1992
Sculpture

Daniel Godfrey, Professor
Ph.D., University of Iowa, 1982
Music theory, composition

Sharon Gold, Associate Professor
B.F.A., Pratt Institute of Technology, 1976
Drawing, painting, art theory

Cynthia Gordon, Assistant Professor
Ph.D., Georgetown University, 2003
Language and social interaction, family
communication

Eileen Gosson, Assistant Professor
B.F.A., Syracuse University, 1984
Surface pattern design

Holly Greenberg, Assistant Professor
M.F.A., The School of the Art Institute of
Chicago, 1994
Printmaking

Donna Greene,
B.F.A., Syracuse University, 1987
Advertising design

Jennifer Griffin, Adjunct
M.F.A., Syracuse University, 1989
Surface pattern design

Diane Grimes, Associate Professor
Ph.D., Purdue University, 1996
Organizational communication

Kim Hale, Assistant Professor
B.A., Wellesley College, 2003
Dance

Bob Halligan Jr., Adjunct Instructor
B.A., Hamilton College, 1975
Songwriting

Heath Hanlin, Associate Professor
M.F.A., Ohio State University, 1998
Computer art

William Harris, Affiliate Artist
M.M., Syracuse University, 1979
Trombone

Andrew Havenhand, Assistant Professor
M.F.A., Virginia Commonwealth University,
1984
Painting

Lucinda Havenhand, Associate Professor,
Chair
Ph.D., Virginia Commonwealth University,
2007
Interior design, design history

Denise Heckman, Assistant Professor
M.F.A., Cranbrook Academy of Art, 1995
Industrial design

Dusty Herbig, Assistant Professor
M.F.A., University of Wisconsin, Madison,
2002
Printmaking

Jonathan Herter, Adjunct
B.A., SUNY Geneseo
Sound design

Amy Heyman, Affiliate Artist
M.Mus., University of Wisconsin-Madison,
1986
Piano

Laura Heyman, Assistant Professor
M.F.A., Cranbrook Academy of Art, 1998
Photography

Steven Heyman, Affiliate Artist
M.Mus., Julliard School of Music, 1982
Piano

David Hicoek, Adjunct
B.F.A., Syracuse University, 1972 Film

Kenneth Hine, Associate Professor
Art Institute of Chicago
Communications design

Gail Hoffman, Adjunct Professor
M.F.A., Indiana University, 1980
2-D creative processes

Bradley Hudson, Adjunct, Exhibition
Facilitator
M.F.A., Kent State University, 1982
Museum studies

Rodney Hudson, Assistant Professor
M.A., University of South Dakota, 1973
Musical theater performance, scene study

Margie Hughto, Professor
M.F.A., Cranbrook Academy of Art, 1971
Ceramics

Nathan Hurwitz, Musical Director
Ph.D., University of Pittsburg
Musical direction, performance and
orchestration

Domenic Iacono, Adjunct
M.A., Florida State University, 1976
Museum studies

Elizabeth Ingram, Assistant Professor
London Academy of Music and Dramatic Art,
1964
Voice, acting, scene study

Malcolm Ingram, Associate Professor
Central School of Speech and Drama, London,
1963
Voice/verse, scene study

Hope Irvine, Professor Emeritus
Ph.D., New York University, 1980
Art, art education, creativity, interdisciplinary
experiences

Felix Ivanoff, Assistant Professor
Diploma, Central School of Speech and
Drama, London, 1963
Voice/verse, scene study

Vera Ivanova, Assistant Professor
Ph.D., Eastman School of Music (ABD), 2006
Music theory and composition

Nancy James, Affiliate Artist
M.M. in Vocal Coaching, New England
Conservatory of Music, 1987
Voice

Arthur Jensen, Professor
Ph.D., University of Massachusetts, 1982
Organizational communication, small group communication

Eric Johnson, Assistant Professor
M.M., Indiana University School of Music, 1983
Voice, opera workshop

Kenneth Johnson, Assistant Professor
Ph.D., University of Massachusetts, 1980
Interpersonal communication, research methods

Melissa Johnson, Adjunct
M.F.A., Art Institute of Chicago, 2006
Painting

Fred Karpoff, Associate Professor
D.M.A., Peabody Conservatory of Music, 1992
Piano, chamber music, vocal coaching

Rebecca Karposh, Affiliate Artist
D.M.A., Eastman School of Music, 1997
Voice, vocal pedagogy

Marie Kemp, Assistant Professor
M.F.A., M.Mus, Syracuse University, 1989
Musical theater performance, scene study

Amos Kiewe, Professor
Ph.D., Ohio University, 1984
Criticism, public address, rhetoric

Adrienne Kim, Affiliate Artist
M.Mus., Manhattan School of Music, 1992
Piano

Alex Koziara, Associate Professor
M.F.A., SUNY at Purchase, 1998
Lighting and set design, CAD lab

James Krehbiel, Affiliate Artist
B.Mus., Eastman School of Music
Violin

Meggan Kulczynski, Adjunct
M.F.A., North Carolina School of the Arts, 2000
Design and costume technology

Mary Lang, Adjunct
M.A., Syracuse University, 1994
Management and development

Kevin Larmon, Adjunct
B.F.A., State University of New York at Binghamton, 1978
Painting

John Laverty, Professor
Ph.D., Florida State University, 1995
Conducting, trumpet, arranging

Mary Laverty, Adjunct Instructor
M.L.I.S., University of Texas, Austin, 1991
Graduate Research

Victor Lazarow, Associate Professor
Ph.D., University of Georgia, 1978
Acting, theater history, play analysis

MaryElen Letterman, Associate Professor
B.F.A., Pratt Institute, 1965
Interior design

Jude Lewis, Associate Professor
M.F.A., State University of New York at Albany, 1989
Sculpture, dimensional arts

Li Li, Affiliate Artist
M.Mus., Boston University, 2001
Viola

David Lowenstein, Adjunct
B.F.A., Syracuse University, 1984
Musical theater

Holly Luedtke, Adjunct
B.S., Ball State University; Scenic Art Internship, Juilliard School
Scene painting

Elizabeth Luttinger, Adjunct Professor
M.M., Syracuse University, 2008
Music Theory

Laurance Luttinger, Affiliate Artist
M.Mus., Syracuse University
Percussion

Gail Lyons, Teaching Consultant
M.Mus., Syracuse University, 1967
Harp

Philip MacArthur, Affiliate Artist
M.M., Syracuse University, 1966
Oboe

Craig MacDonald, Associate Professor
M.F.A., Rutgers University, 1988
Acting, scene study

Iris Magidson, Assistant Professor
B.F.A., Syracuse University, 1964
Communications design

Bruce Manwaring, Associate Professor
M.F.A., University of Massachusetts, 1970
Drawing, printmaking

Maria Marrero, Professor
M.F.A., Rutgers University, 1977
Costume and set design, stage makeup

Roderick Martinez, Assistant Professor
M.F.A., Rochester Institute of Technology, 1993
Communications design

Jeremy Mastrangelo, Affiliate Artist
M.M., University of Michigan, 2000
Violin

Jeffrey Mayer, Associate Professor
M.A., University of Connecticut, 1989
Fashion design

Sarah McCoubrey, Associate Professor
M.F.A., University of Pennsylvania, 1981
Drawing, painting

Chris McCray, Assistant Professor
M.F.A., Rhode Island School of Design, 2008
Industrial design

Julia McKinstry, Affiliate Artist
M.F.A., Carnegie Mellon University, 1981
Voice

Judith Meighan, Assistant Professor
Ph.D., Columbia University, 1997
Art history

Gregory Mertl, Assistant Professor
Ph.D., Eastman School of Music, 2005
Composition

Justin Mertz, Assistant Director of Bands
M.Mus., Syracuse University, 2003
Ensembles, conducting, marching band techniques

Ken Meyer, Affiliate Artist
D.M.A., Eastman School of Music, 2000
Guitar

Stephen Meyer, Assistant Professor
Ph.D., SUNY Stony Brook, 1996
Eighteenth and 19th century music, history of opera

Donna Miller, Affiliate Artist
M.M., Syracuse University, 1982
Voice

Kathryn Miranda, Adjunct Instructor
M.AmSAT, American Center for the Alexander Technique, 1990
Alexander Technique; movement, posture, and breathing coordination

Steve Montgomery, Assistant Professor
B.F.A., University of West Virginia
Advertising Design

Kevin Moore, Studio Associate
Ph.D., New York University, 1979
Performance and theory; J.D., Syracuse University College of Law, 1986

Bridget Moriarty, Affiliate Artist
M.M., Syracuse University, 2008
Voice

Frank Morigi, Professor Emeritus
M.F.A., Art Institute of Chicago, 1963
Interior design

Robert Moss, Adjunct
Director, Playwrights Horizons Theatre School Directing

Carmel Nicoletti, Adjunct
M.F.A., Syracuse University, 1986
Drawing, 2-D creative processes

Ulf Oesterle, Assistant Professor
Ph.D., Syracuse University, 2007
Record labels, management, music technology

John Orentlicher, Professor
M.F.A., Art Institute of Chicago, 1970
Video, performance

Olukola Owolabi, Assistant Professor,
University Organist
M.A., Eastman School of Music, 2007
Organ, music theory

William Padgett, Associate Professor
B.F.A., Washington University, 1970
Communications design

Kendall Phillips, Associate Professor, Chair
Ph.D., Pennsylvania State University, 1995
Rhetoric, American film, public sphere

Lisa Porter, Assistant Professor
M.F.A., American Conservatory Theatre,
1994
Voice/verse

Darryl Pugh, Affiliate Artist
M.M., Eastman School of Music, 2000
Jazz bass

James Ransome, Assistant Professor
B.F.A., Pratt Institute
Illustration

Sarah Redmore, Assistant Professor
M.F.A., Syracuse University, 1990
Interior design

David Rezak, Affiliate Artist
Founder and president, DMR Booking Agency
Music industry

Joseph Riposo, Affiliate Artist
M.M., Syracuse University, 1969
Jazz improvisation, music education

Olivia Robinson, Assistant Professor
M.F.A., Rensselaer Polytechnic Institute,
2004
Fibers

Amardo Rodriguez, Laura J. and L. Douglass
Meredith Professor
Ph.D., Howard University, 1995
Organizational communication,
communication theory, postcolonial theory

Julianna Sabol, Associate Professor
D.M.A., University of Cincinnati, 1992
Voice, diction

Anthony Salatino, Associate Professor
B.F.A., Juilliard School, 1969
Ballet, tap, performance styles, movement

Andrew Saluti, Adjunct
M.F.A., Louisiana State University, 2002
Drawing

Sarah Saulson, Adjunct
B.A., Wellesley College, 1976
Fibers

Nicolas Scherzinger, Assistant Professor
D.M.A., Eastman School of Music, 2001
Composition, electronic music

Owen Shapiro, Professor
M.F.A., Brooklyn College, 1966 Film, media
theory

Sam Sheehan, Adjunct
Props, crafts, construction, research

Tom Sherman, Professor
B.F.A., Eastern Michigan University, 1970
Video, media theory

Michael Sickler, Associate Professor
M.F.A., University of Wisconsin, 1973
Drawing, painting, art history

Lawson Smith, Associate Professor
M.F.A., University of Nebraska, 1974
Sculpture, drawing

M. Douglas Soyars, Associate Professor
M.M., University of Michigan, 1964
Music industry

Joanna Spitzner, Assistant Professor
M.F.A., Ohio State University, 2001
Time arts

Randy Steffen, Adjunct
M.F.A., Yale University
Technical design and production

Ludwig Stein, Professor
M.F.A., Tyler School of Art, 1969
Drawing, painting

Caroline Stinson, Affiliate Artist
M.M., Hochschule fur Musik Koein, Germany,
2000
Cello

Emma Suárez, Assistant Professor
Ph.D., University of Toronto, 2005
Music education, multicultural music, choral
conducting

Miso Suchy, Associate Professor
M.F.A., Academy of Performing Arts,
Bratislava, Czechoslovakia, 1990 Film

Martha Sutter, Affiliate Artist
M.M., Syracuse University, 1983
Voice

Deborah Swerman, Adjunct
M.F.A., University of New Orleans, 1994
Introduction to theatre, acting for non-majors

Barbara Tagg, Affiliate Artist
Ed.D., Syracuse University, 1997
Music education

James Tapia, Associate Professor
D.M.A., University of Texas at Austin, 1997
Orchestral studies, conducting

John Thompson, Professor
B.F.A., Miami University of Ohio, 1962
Illustration, painting

Patti Thompson-Buechner, Affiliate Artist
B.M., Curtis Institute; Diploma, Academia di
Santa Cecilia, Rome, Italy, 1960
Voice

Toni Toland, Associate Professor
M.F.A., Syracuse University, 1982
Advertising design

Ida Trebicka, Affiliate Artist
M.Mus., Syracuse University, 1996
Piano, chamber music

Janine Turner, Adjunct
B.S., Florida State University, 1997
Interior design

Diego Vega, Assistant Professor
D.M.A., Cornell University, 2005
Music theory, composition, contemporary
analysis

Bradford Vivian, Assistant Professor
Ph.D., Pennsylvania State University, 2001
Rhetorical theory, public memory, continental
philosophy

Andrew Waggoner, Associate Professor
D.M.A., Cornell University, 1986
Composition, music theory, music history

Barbara Walter, Professor
M.F.A., Northern Illinois University, 1977
Metalsmithing

David Wanstreet, Assistant Professor
B.S., West Virginia University, 1971
Musical performance and choreography

John Warren, Assistant Professor
D.M.A., University of Miami
University Singers, Hendricks Chapel Choir,
conducting, choral literature

Carolyn Weber, Affiliate Artist
M.Mus., Syracuse University, 1990
Voice

Joseph Whelan, Adjunct
B.A., Empire State College
Theater history

Errol Willett, Assistant Professor
M.F.A., Pennsylvania State University, 1993
Ceramics

David Williams, Adjunct
B.S., Syracuse University, 1999 Audio

Amanda Winkler, Associate Professor,
Chair, Art and Music Histories
Ph.D., University of Michigan, 2000
Seventeenth century music, music in England

Jerome Witkin, Professor
M.F.A., University of Pennsylvania, 1970
Painting, drawing

Gregory Wood, Affiliate Artist
B.M., Cincinnati College, Conservatory of
Music, 1978
Cello

Janith Wright, Associate Professor
M.S., Oregon State University, 1986
Fashion design

Robert Wysocki, Assistant Professor
M.F.A., Yale University, 1995
Sculpture

Stephen Zaima, Professor
M.F.A., University of California, Davis, 1971
Painting, art theory

Edward Zajec, Professor Emeritus
M.F.A., Ohio University, 1966 Computer art

University College

Bethaida Gonzalez, Dean
700 University Ave.
uc.syr.edu/



About The College

Welcome to University College, the home of part-time study at Syracuse University.

SU undergraduates and non-matriculated graduates taking 11 or fewer credits per semester are considered part-time students. Students register through UC, and receive Syracuse University degrees upon completion of their academic program. UC offers open enrollment in most courses, allowing any interested student to earn SU credits if he or she meets the academic requirements. Part-time and full-time undergraduates take the same curriculum and can choose from many different majors offered by the various schools and colleges at Syracuse University.

We know that earning a degree is your goal, but many obstacles may stand in your way. Juggling family, job, and community responsibilities requires a commitment that can be challenging, so UC offers courses in flexible formats that allow you to build your academic schedule around your commitments at home and at work.

Undergraduate Education

Earning an Undergraduate Degree Part Time

Most of the University's schools and colleges allow part-time undergraduate students to matriculate* into their degree programs by enrolling through University College. The curriculum requirements are the same as for full-time undergraduates, except that part-time students enroll for 11 or fewer credits each semester. Students have the option of taking classes during the day, in the evening, online, or through a variety of other flexible formats. University College makes every effort to ensure that courses are offered at times that are convenient to part-time students. Click here for a complete listing of all degree programs available to part-time students.

Enrolling in a Course

Enrollment in most courses is open for students who want to take classes but not matriculate* into a degree program. Students must meet SU academic requirements to earn credits on a non-matriculated basis. Part-time students may take most courses offered across SU's schools and colleges. Click here for a current list of evening, online, and other flexible format course offerings. or use MySlice to view all SU courses.

University College provides part-time students with personalized academic advising, financial aid, registration and bursar services. To find out how you can earn an SU degree part time attend an information session, call for an appointment with an academic advisor (315-443-3261), or e-mail parttime@uc.syr.edu. We'll get you started on the journey of a lifetime.

(*Matriculation: admission to a degree program. Required for graduation and financial aid.)

Summer Programs

MAYmester - an intensive, two-week session
Session I - six weeks (mid-May to late June)
Session II - six weeks (early July to mid-August)
Combined Session - 7- to 12-week session (mid-May to mid-August)

Attending summer sessions also enables students to take courses they couldn't enroll in during other semesters. Additionally, students visiting from other colleges can, with permission from their home school, take courses at SU during the summer and transfer their credits to their own university.

The Summer Course Schedule is available at the beginning of March. Students may also search for classes in MySlice.

High school students can take undergraduate courses, earn college credits, and explore potential majors while taking part in campus life through Summer College. Two-week, three-week, and six-week programs are available in nine different areas – some credit and some non-credit. For more information, contact Christopher Cofer, director of Summer College, at 315-443-1988 or clcofer@syr.edu, or visit the web site.

SummerStart

Many at-risk students are not quite ready to make the transition to college life. SummerStart helps accepted pre-freshmen with academic, social, and cultural issues as they transition from high school to the college environment. Students can earn 7 credits toward their college degree during the summer before freshman year. For more information, contact JoAnn May, director of SummerStart, 315-443-5045 or jkmay@syr.edu, or visit the web site.

Student SUccess Initiative

The Student SUccess Initiative (SSUI) is committed to the retention of students who are struggling in their academic work. SSUI provides a comprehensive learning community experience that includes personal coaching, quiet study areas, University-wide study clinics, tutorials, and social activities. To qualify for SSUI, students must show some indication that they are academically “at risk” and are committed to making a change in their approach to academic and personal development. For more information, contact JoAnn May, director of SSUI, 315-443-5045, or jkmay@syr.edu, or visit the web site.

English Language Institute

ELI courses are designed for international students and professionals who are interested in short-term or long-term study to improve their proficiency in English. Intensive courses are offered at five levels. Courses also can be tailored for discipline-specific study. Enrollment is limited and admission is by application only.

For more information about ELI, visit the web site.

Arthur O. Eve HEOP

The Arthur O. Eve HEOP, administered by University College, is designed for first-time college students and transfer students from other opportunity programs. It provides academic and financial support for people of all ages who, because of educational and economic circumstances, would otherwise be unable to attend college. This is the only HEOP program for part-time students in New York State.

For more information on the HEOP program, visit the web site.

University College Honors

University College celebrates the accomplishments of those students who achieve extraordinary success in their studies with the following forms of recognition.

Alpha Sigma Lambda - Matriculated part-time candidates for the baccalaureate degree may be invited to join Alpha Sigma Lambda, the national honor society for continuing education students, represented at SU by the Beta Delta chapter. To qualify, part-time sophomores who have earned at least 24 credits and have maintained a 3.4 GPA may be selected as initiates.

Dean's List - Matriculated part-time students enrolled at University College are selected for the dean's list at the end of the fall or spring semester, if they have enrolled in consecutive semesters with a total of 12 or more credits and earned a 3.4 GPA.

National Honor Society in Paralegal / Legal Assistant Studies - Legal studies majors who demonstrate superior academic performance as well as professional accomplishments may merit recognition in the National Honor Society in Paralegal / Legal Assistant Studies represented at SU by the Lambda Epsilon Chi chapter.

WorkKeys

WorkKeys® is a job analysis and skill assessment system developed by ACT, the international leader in educational testing. It was originally created for the workplace, to help employers make better hiring decisions and to develop training to help build a higher performing workforce. WorkKeys focuses on eight foundational skills identified by employers as critical to success in any occupation. The program awards certificates for workplace competency that serve as credentials reflecting a worker's skill levels.

For more information about WorkKeys, visit the web site.

Academic Offerings

Liberal Arts

Contact: University College Student Administrative Services
315-443-3261

The Associate in Arts in Liberal Arts degree (A.A.) provides an interim credential for students working toward the baccalaureate degree. Offered under the auspices of The College of Arts and Sciences, Syracuse University's founding college, the degree provides a sound general education in the liberal arts by combining coursework in the humanities, the natural and social sciences, and mathematics. Students earning the associate's degree must complete a minimum of 30 credit hours of Syracuse University coursework while enrolled as a part-time student at University College.

Liberal Studies

Contact: University College Student Administrative Services
315-443-3261

The B.A. in Liberal Studies provides a general education in the areas of humanities, social sciences, mathematics, and natural sciences. Offered under the auspices of The College of Arts and Sciences, Syracuse University's founding college, the degree provides the opportunity to develop the skills and resources that today's employers want. Students earning the bachelor of liberal studies degree must complete a minimum of 30 credit hours of Syracuse University coursework while enrolled as a part-time student at University College.

Courses

Courses listed below belong to University College and meet the requirement of UC's Bachelor of Professional Studies degree programs. In addition, University College offers part-time students access to most courses offered across SU's schools and colleges. Click here for a current list of evening, online and flexible course offerings, or use MySlice to view all SU courses.

Applied Computer Technologies

ACT 470 Experience Credit 1-6

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

ACT 490 Independent Study 1-6

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

Bachelor Of Professional Studies

BPS 100 Selected Topics 1-3

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

BPS 101 Introduction to Science, Technology, and Society 3 Y

Crosslisted with: STS 101

Assessing technological innovations and their impact on society. Economic, political, and ethical considerations in development of public policy. Examples will include biotechnology and energy technology.

BPS 200 Selected Topics BPS 1-3

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

BPS 270 Experience Credit 1-6 IR

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

BPS 290 Independent Study 1-6 IR

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

BPS 300 Selected Topics BPS 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

BPS 382 Leading Cooperative Negotiations 3 IR

Formulate and implement negotiation strategies with reference to fundamental concepts, current research, principles, and business application. Examine case studies and assess strategies in various diverse contexts. Lead and create a personalized negotiation framework.

BPS 400 Selected Topics 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

BPS 411 Senior Seminar 3 Y

Bachelor of professional studies (B.P.S.) curriculum summary and strategic future decision-making. Objectives: 1) adaptation in a dynamic environment, 2) acquire tools for decision-making, 3) build professional skills for transition to future conditions. Focus on integration of B.P.S. professions.

BPS 470 Experience Credit 1-6

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

BPS 490 Independent Study 1-6

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

Legal Studies

LGL 201 Introduction to Legal Systems and Legal Ethics 3 IR

Examine definitions and sources of law and organization of judicial system. Representative substantive areas of law covered to develop case analysis, legal thinking, and writing. Codes of professional ethics for lawyers and non-lawyers also explored.

LGL 202 Legal Research & Legal Writing 4 IR

Fact analysis, issue spotting, and legal problems involving statutes, digests, and case law. Assigned library research problems. Prepare law office memoranda, legal briefs, and other common legal documents. Computer literacy highly recommended. PREREQ: WRT 205.

LGL 205 Law Office Technology 3 IR

Integration of technology in the legal setting, including hardware and software considerations, document management, law office information management, computer assisted legal research, and the Internet. Criteria and methods for evaluating technological options. PREREQ: LGL 201, 202.

LGL 270 Experience Credit 1-6 IR

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

LGL 290 Independent Study 1-6 IR

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

LGL 301 Tort Law 3 IR

Overview of the principles of tort law covering intentional torts, negligence, strict liability, product liability, and defamation. Elements of causes of action, defenses, and the role of the legal assistant are examined.

LGL 302 Criminal Law & Procedure 3 IR

Substantive criminal law and procedure including criminal responsibility and elements of a crime. Crimes and defenses, charges, and penalties examined. Rights, privileges, investigations, confessions, interrogations, identifications, subpoenas, arraignments, court and trial procedures covered.

LGL 304 Contracts and Commercial Law 3 IR

Contract formation, offer and acceptance, capacity, and consideration. Common law contracts, sales contracts (Article 2, Uniform Commercial Code), negotiable instruments (Article 3, Uniform Commercial Code), promissory notes, drafts, checks, certificates of deposit, and dynamics of commercial transactions are examined.

LGL 305 Property and Real Estate 3 IR

Common law real property, deeds and conveyances, liens and encumbrances, easements and restrictive covenants, and conditional estates. Also leases, recording acts, brokers, contracts, title examination, title policies and surveys, and preparation of transactional documents.

LGL 306 Family Law and Domestic Relations 3 IR

The laws of divorce, separation, and annulment are followed by a study of custody, visitation, and support. Procedural aspects in both Family Court and Supreme Court. PREREQ: LGL 201.

LGL 321 Administrative Law 3 IR

Law and procedure of state and federal administrative agencies, including case law, appearances, and practice before administrative agencies. Hearings, rulemaking, adjudication, due process, judicial review, agency discretion, information disclosure, and decisions. PREREQ: LGL 201.

LGL 322 Alternative Dispute Resolution 3 SI

Fundamentals of arbitration, mediation, and negotiation in legal disputes and litigation are examined. Practical applications in business, community, and domestic settings studied. Increasing use of court ordered ADR explored. Procedures, skills, and ethics are covered. PREREQ: LGL 201.

LGL 331 Environmental Law 3 SI

Federal and state law and procedures addressing air and water pollution, toxic substances, solid waste, and nuclear hazards. Municipal land use considerations. Emphasis on preparation, compliance, and litigation issues. PREREQ: LGL 201.

LGL 400 Selected Topics in Legal Studies 1-3 IR

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

LGL 401 Civil Practice and Litigation 4*IR*

Pleadings, motions, and orders. Also disclosure including interrogatories, depositions, and discovery. Additionally, time limitations, service of process, judgment, filing, and appeals. Practical experience mirroring a civil litigation from inception through resolution. PREREQ: LGL 201.

LGL 402 Estates, Wills and Trusts 3*IR*

Intestate distribution, the legal requirements of a valid will, the use of trusts, and probate proceedings. Principles of estate administration, accounting, recordkeeping, estate income, and estate taxes are also covered.

PREREQ: LGL 201.

LGL 403 Business Organizations 3*IR*

Review of the major areas of business organizational law. Comparisons of sole proprietorship, partnership, corporation, and agency. Focus on corporate operations. Employer/employee relationship and statutes and regulations affecting employment are examined.

PREREQ: LGL 201.

LGL 404 Employment and Labor Law 3*SI*

Rights and duties of employers and employees, including hiring practices, personnel procedures, terminations, employment discrimination, sexual harassment, public and private collective bargaining, and OSHA regulations. Practical document management, settlement, and litigation practices examined. PREREQ: LGL 201.

LGL 405 Creditor, Debtor, Law and**Bankruptcy 3**

IR
Rights of creditor from the time of contract through default, creditor's remedies, including litigation, arbitration, investigation, negotiation, and post-judgment enforcement rights. Data collection and drafting. Bankruptcy practice and proceedings, liquidations, reorganizations, and adjustments. PREREQ: LGL 201.

LGL 406 Healthcare Law 3*SI*

Examines legal relationships among consumers, healthcare providers, and third-party insurers. Focuses on regulatory control, compliance, medical records, reimbursement, terminology, and enforcement. Practical concerns regarding health plans, government plans, and areas of dispute are covered.

PREREQ: LGL 201.

LGL 407 Intellectual Property 3*SI*

Patent, trademark, copyright, and trade secret protection. Distinctions between forms of intellectual property and statutory and common law methods of enforcing rights. Emphasis on practical maintenance, research, emerging technologies, materials preparation, and litigation processes.

PREREQ: LGL 201.

LGL 408 Municipal Law 3*SI*

Fundamentals of town, city, and village law, including governing bodies, courts, executive functions, elections, taxation, financial instruments, land use, licenses, records retention, and dispute resolution. Focuses on issues for non-lawyer governmental employees.

PREREQ: LGL 201.

LGL 415 Sport Law 3*Y*

Crosslisted with: SPM 415
Introduction and application of law to the sports industry. Legal concepts covered are agency, contract, labor, antitrust, tort, and criminal laws. Special focus on contemporary issues in sports including diversity, Title IX, drugs, and disabilities.

PREREQ: SPM 205 OR LGL 201.

LGL 421 Interviewing, Investigation and**Discovery 3**

SI
Principles, methods, and techniques to locate, gather, document, and disseminate legal information. Develop interviewing and investigative skills to communicate effectively and recognize ethical issues in discovery. Understand application of formal rules of evidence.

PREREQ: LGL 201, 401.

LGL 470 Experience Credit 1-6*SI*

Participation in a discipline- or subject-related experience. Students must be evaluated by written or oral reports or an examination. Limited to those in good academic standing. R

LGL 471 Legal Internship 3*Y*

Supervised internship integrates coursework with practical experience. Structured work experience in law firm, corporation, public service organization, or other legal environment. Classroom sessions, oral and written reports, and discussion of ethical workplace issues are included.

LGL 490 Independent Study 1-6*SI*

In-depth exploration of a problem or problems. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor or instructors and the department. R

Organizational Leadership**OGL 300 Selected Topics 1-3***IR*

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

OGL 342 Customer Relations Leadership*3 IR*

World-class practices in customer relations. Review of current research, critical analysis of case studies, workplace applications. Designing and leading plans and change, developing support structures and processes. Assessment and evaluation.

OGL 400 Selected Topics 1-3*IR*

Exploration of a topic (to be determined) not covered by the standard curriculum but of interest to faculty and students in a particular semester. R

OGL 472 Organizational Leadership 3

IR
Theoretical models and experiential practices of leadership. Concepts, best practices, and business applications. Acquire competency as a strategist, facilitator, change agent, and navigator.

Faculty

Walter Bowler, Adjunct, Legal Studies
J.D., Syracuse university College of Law, 1988

Daniel Cantone, Adjunct, Organizational
Leadership
J.D., Syracuse University College of Law,
1981

Renee Downey, Adjunct, Organizational
Leadership
Ph.D., Syracuse University, 1996

Brian Haynes, Adjunct, Legal Studies
LL.M., New York University School of Law,
1984;
J.D., Western New England College School of
Law, 1983

Virginia Leasure, Adjunct, Legal Studies
J.D., Syracuse University College of Law,
1986

Bartholomew Murphy, Adjunct,
Professional Studies
B.S., University of Missouri/Columbia College,
1981

Paula Pratt, Adjunct, Legal Studies
M.E., SUNY Oswego

James Snyder, Adjunct, Legal Studies
J.D., Albany Law School of Union University,
1983

Marcene Sonneborn, Adjunct, Professional
Studies
M.B.A., Syracuse University, 1989

Charles Sprock Jr., Adjunct, I
J.D., University of Notre Dame Law School,
1989

SUNY-ESF (Partner Institution)

1 Forestry Drive, Syracuse, NY 13210
www.esf.edu/

About The College

State University Of New York College Of Environmental Science And Forestry (ESF)

Cornelius B. Murphy Jr., President
223 Bray Hall, 470-6681

S. Scott Shannon
Dean of Instruction and Graduate Studies
227 Bray Hall, 470-6599

Susan H. Sanford
Director of Undergraduate Admissions
106 Bray Hall, 470-6600

The State University of New York College of Environmental Science and Forestry (ESF) adjoins the Syracuse University campus and is closely associated with the University. The College is a doctoral-granting institution of the State University of New York. ESF enrolls approximately 2,400 students, including 600 at the graduate level.

The College has extensive modern laboratories, classrooms, and equipment and instrumentation. Off-campus facilities include 25,000 acres of forest land at seven locations, used for instruction, demonstration, and research. Two-year programs leading to the associate's degree in forest technology and surveying technology are offered at the Ranger School located at Wanakena, New York.

A variety of master's and doctoral programs are also available at ESF. Syracuse University juniors and seniors are invited to learn more about these programs and about ways to accelerate admission into graduate programs by inquiring at 227 Bray Hall.

ESF students have the same privileges as SU students with regard to health services and the use of dining halls, residence halls, library facilities, testing services, and athletic and recreational facilities. They also share the wide range of social and cultural resources available at the University. Students at ESF and Syracuse University take courses on both campuses to enrich and complement their major programs.

Undergraduate Programs

The College Offers Undergraduate Study In The Following Areas:

Degree Programs And Areas Of Study

The College is authorized to award the following undergraduate degrees. Enrollment in programs that are not registered or otherwise approved programs may jeopardize a student's eligibility for certain financial aid programs. Further descriptions and coursework requirements of the individual academic programs may be found online at www.esf.edu/catalog

Associate in Applied Science (A.A.S.)

Forest Technology (HEGIS Code 5403)
Land Surveying Technology (HEGIS Code 5309)

Bachelor of Landscape Architecture (B.L.A.)

Landscape Architecture (HEGIS Code 0204)

Bachelor of Science (B.S.)

Aquatic and Fisheries Science (HEGIS Code 0115)
Bioprocess Engineering (HEGIS Code 0905)
Biotechnology (HEGIS Code 0499)
Chemistry (HEGIS Code 1905) with options in biochemistry and organic chemistry of natural products, environmental chemistry, or natural and synthetic polymer chemistry.
Conservation Biology (HEGIS Code 0420)
Construction Management (HEGIS Code 0599) with an elective concentration in sustainable construction and renewable materials.

Environmental Biology (HEGIS Code 0420)
Environmental Science (HEGIS Code 0420) with options in renewable energy, environmental information and mapping, watershed science, health and the environment, earth and atmospheric systems science, environmental analysis, or environmental engineering science.
Environmental Studies (HEGIS Code 0201) with options in biological science applications; environmental policy, planning and law; or environmental communication, culture and writing.
Forest Ecosystem Science (HEGIS Code 0114)

Forest Engineering (HEGIS Code 0999)
Forest Health (HEGIS Code 0114)
Forest Resources Management (HEGIS Code 0115)
Natural History and Interpretation (HEGIS Code 0499)
Natural Resources Management (HEGIS Code 0115)
Paper Engineering (HEGIS Code 0999) with a minor in management.
Paper Science (HEGIS Code 0999) with a minor in management.
Wildlife Science (HEGIS Code 0107)
Wood Products Engineering (HEGIS Code 0999) with elective concentrations in marketing and production, sustainable construction and renewable

materials, or wood science.

Bachelor of Landscape Architecture/Master of Science
B.L.A./M.S. Fast Track (HEGIS Code 0204)

ESF Academic Minors

Please see list and description of ESF Minors available to SU Students under *Academic Offerings* on facing page.

Graduate Programs

The College Offers Graduate Study In The Following Areas:

The College is authorized to award the following graduate degrees. Enrollment in programs that are not registered or otherwise approved programs may jeopardize a student's eligibility for certain financial aid programs. Further descriptions and coursework requirements of the individual academic programs may be found online at www.esf.edu/catalog

Advanced (Graduate) Certificates

Environmental Decision Making (HEGIS Code 0420) for Syracuse University students only.

Advanced Engineering Tools (HEGIS Code 0999)

Bioprocessing (HEGIS Code 0199)

Master of Forestry (M.F.)

Forest Management and Operations (HEGIS Code 0115)

Master of Landscape Architecture (M.L.A.)

Landscape Architecture (HEGIS Code 0204) with areas of study in community design and planning, cultural landscape studies and conservation, or landscape and urban ecology.

Master of Professional Studies (M.P.S.)

Environmental and Forest Biology (HEGIS Code 0499) with areas of study in applied ecology, chemical ecology, conservation biology, ecology, entomology, environmental interpretation, environmental physiology, fish and wildlife biology and management, forest pathology and mycology, plant biotechnology, or plant science and biotechnology.

Environmental and Forest Chemistry (HEGIS Code 1905) with areas of study in biochemistry, environmental chemistry, organic chemistry of natural products, or polymer chemistry.

Environmental and Resource Engineering (HEGIS Code 0999) with an option in construction management and wood products engineering and areas of study in construction and construction management or wood science and technology.

Environmental and Resource Engineering (HEGIS Code 0999) with an option in forest engineering and areas of study in environmental management or mapping sciences.

Environmental and Resource Engineering (HEGIS Code 0999) with an option in paper and bioprocess engineering and areas of study in process and environmental systems engineering or pulp and paper technology.

Environmental Science (HEGIS Code 0420) with areas of study in environmental and community land planning, environmental communication and participatory processes, environmental policy and democratic processes, environmental systems and risk management, or water and wetland resource studies.

Environmental Studies (HEGIS Code 0201) with options in biological science applications; environmental policy, planning and law; or environmental communication, culture and writing.

Forest Resources Management (HEGIS Code 0115) with areas of study in environmental and natural resources policy, forest ecosystem science and applications, natural resources management, quantitative methods in forest science and management, recreation and resources management, or watershed management and forest hydrology.

Master of Science (M.S.)

Environmental and Forest Biology (HEGIS Code 0499) with areas of study in chemical ecology, conservation biology, ecology, entomology, environmental interpretation, environmental physiology, fish and wildlife biology and management, forest pathology and mycology, or plant science and biotechnology.

Environmental and Forest Chemistry (HEGIS Code 1905) with areas of study in biochemistry, environmental chemistry, organic chemistry of natural products, or polymer chemistry.

Environmental and Resource Engineering (HEGIS Code 0999) with an option in construction management and wood products engineering and areas of study in construction and construction management, engineered wood products and structures (timber structure design), tropical timbers, wood science and technology, wood anatomy and ultrastructure, or wood treatments.

Environmental and Resource Engineering (HEGIS Code 0999) with an option in forest engineering and areas of study in ecological engineering, forest engineering, geospatial information science and engineering, or water resources engineering.

Environmental and Resource Engineering (HEGIS Code 0999) with an option in paper and bioprocess engineering and areas of study in chemistry of pulping and bleaching, colloid chemistry and fiber flocculation, fiber and paper mechanics, renewable energy and bioprocess engineering, process and environmental systems engineering, or pulp and paper technology.

Environmental Science (HEGIS Code 0420) with areas of study in environmental and community land planning, environmental communication and participatory processes, environmental policy and democratic processes, environmental systems and risk management, or water and wetland resource studies.

Environmental Studies (HEGIS Code 0201)

Forest Resources Management (HEGIS Code 0115) with areas of study in environmental and natural resources policy, forest ecosystem science and applications, natural resources management, quantitative methods in forest science and management, recreation and resources management, or watershed management and forest hydrology.

Landscape Architecture (HEGIS Code 0204) with areas of study in community design and planning, cultural landscape studies and conservation, or landscape and urban ecology.

Doctor of Philosophy (Ph.D.)

Environmental and Natural Resources Policy (HEGIS Codes 0420 and 0115)

Environmental and Forest Biology (HEGIS Code 0499) with areas of study in chemical ecology, conservation biology, ecology, entomology, environmental interpretation, environmental physiology, fish and wildlife biology and management, forest pathology and mycology, or plant science and biotechnology.

Environmental and Forest Chemistry (HEGIS Code 1905) with areas of study in biochemistry, environmental chemistry, organic chemistry of natural products, or polymer chemistry.

Environmental and Resource Engineering (HEGIS Code 0999) with an option in construction management and wood products engineering and areas of study in construction and construction management, engineered wood products and structures (timber structure design), tropical timbers, wood science and technology, wood anatomy and ultrastructure, or wood treatments.

Environmental and Resource Engineering (HEGIS Code 0999) with an option in forest engineering and areas of study in ecological engineering, forest engineering, geospatial information science and engineering, or water resources engineering.

Environmental and Resource Engineering (HEGIS Code 0999) with an option in paper bioprocess engineering and areas of study in chemistry of pulping and bleaching, colloid chemistry and fiber flocculation, fiber and paper mechanics, renewable energy and bioprocess engineering process and environmental systems engineering, or pulp and paper technology.

Environmental Science (HEGIS Code 0420) with areas of study in environmental and community land planning, environmental communication and participatory processes, environmental systems and risk management, or water and wetland resource studies.

Forest Resources Management (HEGIS Code 0115) with areas of study in forest ecosystem science and applications, natural resources management, quantitative methods in forest science and management, recreation and resources management, or watershed management and forest hydrology.

Academic Offerings

Bioprocess Science Minor

The bioprocess science minor gives students an understanding of the rapidly developing bioprocessing industry, which uses the chemical, physical and biological processes developed by living organisms or their cellular components in a type of advanced manufacturing of specialty commercial products. This minor is available to SU students as well as ESF students. Bioprocess science will influence diverse fields as it becomes widely used, such as in the production of energy from sustainable sources. The bioprocess science minor is available to all ESF and SU undergraduate students (except students in the bioprocess engineering program) who maintain a minimum cumulative grade point average of 2.8, and who desire to develop greater knowledge of bioprocess science and its related fields, with permission of the Paper and Bioprocess Engineering Curriculum Director (313 Walters Hall). Students should declare the minor by the end of the sophomore year. Successful completion of the minor will be noted on the student's transcript. Eighteen credit hours (6 courses) are required to satisfy the minor.

Specified courses: PSE 370 Principles of Mass and Energy Balance (3); BPE 310 Colloid and Interface Science (3); BPE 420 Bioseparations (3); and at least three directed elective courses available from both ESF and Syracuse University, including biology, forestry, chemical engineering, chemistry, paper science and engineering, bioprocess engineering, and environmental and biological engineering. Students are required to complete at least one course from a list of biological and chemistry electives and at least one course from a list of engineering electives. The complete list of courses is available from faculty advisors.

Chemistry

Please contact ESF for further information or refer to the listing on [this page](#).

Construction Management

The ESF minor in construction management prepares students for management careers in the construction industry. This minor is available to SU students as well as ESF students. The basic objective of the minor is to provide a fundamental understanding of the various methods used to take the design into the field and construct a quality structure in the most efficient and effective manner with minimal environmental impacts. To complete this minor, students must pass the following courses with a cumulative GPA of 2.0 or higher.

Admission to the minor requires junior status, a cumulative GPA of 2.5 or higher, and permission of the construction management and wood products engineering undergraduate curriculum coordinator (220 Baker).

Required courses (3 credits each): WPE 342 Light Construction; WPE 343 Construction Estimating; WPE 453 Construction Planning and Scheduling; WPE 454 Construction Project Management.

Two additional courses chosen from the following (3 credits each)

WPE 330 Building Codes and Zoning Practice; WPE 331 Construction Safety; WPE 335 Cost Engineering; WPE 350 Construction Methods and Equipment; WPE 444 Materials Marketing; WPE 455 Construction Contracts and Specifications

Total credits required: 18

Environmental Biology

Please contact ESF for further information or refer to the listing on [this page](#).

Landscape Architecture Studies

The ESF minor in landscape architecture provides an understanding of the natural and human factors that shape our physical environment. This minor is available to SU students as well as ESF students. To complete this minor, students must pass the following courses and an additional landscape architecture course approved by the landscape architecture undergraduate curriculum director with a cumulative grade point average of 2.0 or higher.

Admission to the minor requires a cumulative grade point average of 2.5 or higher and permission (ESF petition) of the Landscape Architecture Undergraduate Curriculum Director (331 Marshall Hall).

Required courses (3 credits each): LSA 220 Introduction to Landscape Architecture; LSA 311 Natural Processes in Planning and Design; LSA 312 Place/Culture/Design; LSA 305 History of Landscape Architecture I; LSA 306 History of Landscape Architecture II; LSA 451 Comprehensive Land Planning; LSA 496 Special Topics in Landscape Architecture (*recent topics include* Community Development Process, Urban Design Seminar, 20th-Century Landscape and Rural Community Design Studio)

Total credits required: 18

Natural Resources And Environmental Policy Minor

The ESF minor in natural resources and environmental policy is intended to develop an awareness of the interrelationships among parts of the biophysical environment and policy development; to develop a focused special application within the student's major; and to develop the ability to intelligently interact with natural resources and environmental specialists in planning and policy formation. This minor is available to SU students as well as ESF students. To complete this minor, students must pass the following courses with a cumulative grade point average of 2.0 or higher.

Admission to the minor requires junior status, a cumulative grade point average of 2.5 or higher, and permission of the Forest and Natural Resources Management Undergraduate Curriculum Coordinator (320 Bray Hall). Students should also have completed a basic course in microeconomics, political science, and general biology.

Required courses (3 credits each): FOR 321 Forest Ecology and Silviculture; FOR 333 Managerial Economics for Environmental Professionals; FOR 360 Principles of Management; FOR 465 Natural Resources and Environmental Policy; FOR 488 Natural Resources Administration Law; ENS 550 Environmental Impact Analysis: Principles and Strategies

Total credits required: 18

Paper Science Minor

The paper and related industries (including pulp, mineral, chemical and machinery suppliers) continually seek knowledgeable and skilled employees. This minor is available to SU students as well as ESF students. Each year, companies hire numerous graduates of chemical, mechanical and environmental engineering programs as well as chemists and other environmental professionals in addition to paper science and engineering graduates. Salaries for new hires are among the highest for all fields of study at the bachelor's degree level. This minor gives students a thorough understanding of the paper industry that will allow them to apply their major field of study to this growth industry. The paper science minor is available to all ESF and SU undergraduate students (**except students in the paper science and paper engineering programs**) who maintain a minimum cumulative grade point average of 2.8 and with permission of the Paper and Bioprocess Engineering Curriculum Director (313 Walters Hall). A student should declare the minor by the end of the sophomore year, but may petition to his/her own department for enrollment at any time after that. Successful completion of the minor will be noted on the student's transcript. Eighteen credit hours (6 courses) in paper science courses are required.

Specified courses:

PSE 300 Introduction to Papermaking (3); PSE 302 Pulp and Paper Laboratory Skills (1); PSE 370 Principles of Mass and Energy Balance (3); and directed electives courses (at least 11 credits): PSE 350 Pulping and Bleaching Processes (3); PSE 351 Pulping and Bleaching Laboratory (2); PSE 465 Paper Properties (4); PSE 466 Paper Coating and Converting (2); PSE 467 Papermaking Wet End Chemistry (3); PSE 468 Papermaking Processes (3).

Recreation Resource And Protected Area Management -ESF

This minor provides students with the opportunity to combine visitor management with protected area management. This minor is available to SU students as well as ESF students. Understanding the need to balance the opportunity for visitor experiences with protecting and stewarding protected areas provides professional insight into planning and managing those areas for limited visitor access. Understanding the motivations, preferences, and behavior of recreational users is necessary to integrate the human dimensions into protected area management with consideration of the social and environmental factors related to such management. Protected area managers need to be able to manage both the resource itself as well as a wide variety of users, such as campers, hikers, bird watchers, boaters, nature photographers and others who enjoy nature-based experiences in extensive protected area environments owned by public agencies, private landowners, or NGOs.

Admission to the minor requires students to have a cumulative grade point average of 2.75, and permission of the Forest and Natural Resources Management Curriculum Director (320 Bray Hall). Nineteen credit hours of courses are required.

Specified courses:

EFB 320 General Ecology (4); EFB 416 Introduction to Environmental Interpretation (3); FOR 372 Fundamentals of Outdoor Recreation (3); FOR 475

Renewable Energy - ESF

The development of sustainable sources of energy has become a critical national and global issue due to concerns about the quality and quantity of the different potential resources, energy security, and potential impacts of each on the environment and human health. This minor is available to SU students as well as ESF students. It is essential that our society and energy professionals gain an understanding of production and conversion of different forms of energy, their current and future supplies, the markets and policy mechanisms that regulate their supply, and the associated impacts on the environment for each fuel. In the past both traditional and renewable energy sources have been studied one resource at a time and usually from the perspective of a single discipline. This minor will provide students an opportunity to examine different sources of traditional and renewable energy simultaneously in the context of our total energy use using a systems perspective. Students will be exposed to views from a variety of disciplines as they wrestle with a wide array of issues related to current and future energy supply and use. The understanding and development of renewable energy requires expertise from a wide range of disciplines. This minor will be interdisciplinary in nature with instructors from different disciplines teaching the core courses. The Renewable Energy minor is available to all ESF and SU undergraduate students (**except students who are in the Renewable Energy option in Environmental Science**) who have a GPA of 2.75 or better by the end of their sophomore year, and with permission of the Environmental Science Curriculum Director (358 Illick Hall). The minor will require a minimum of 18 credits, 15 of which are required courses. The remaining 3 credits can be selected from the list of suggested courses.

Specified courses:

EFB 120 Global Environment (3); ESC 325 Energy Systems (3); ESC 335 Renewable Energy Systems (EFB 120 is a pre-req) (3); ESC 422 Energy Markets and Regulation (3); ESC 450 Renewable Energy Capstone Planning (1); ESC 460 Renewable Energy Capstone Seminar (2) and a minimum of three credits from the following list of suggested courses: BPE 441 Biomass Energy (3); EFB 516 Ecosystems (3); EFB 518 Systems Ecology (4); ERE 351 Basic Engineering Thermodynamics (2); ERE 519 Green Entrepreneurship (3); FCH 360 Physical Chemistry I (3); FCH 571 Wood Chemistry I: General Wood Chemistry (2); FOR 415 Forestry Consulting and Wood Procurement (3); PSE 361 Engineering Thermodynamics (3); PSE 370 Principles of Mass and Energy Balance (3).

Sustainable Construction Management Minor

The sustainable construction management minor is available to all ESF undergraduates (**except students in construction management or wood products engineering programs**) and prepares students for management careers in sustainable construction. This minor is available to SU students as well as ESF students. The basic objective of the minor is to provide a fundamental understanding of the sustainable concepts and methods used to take a design into the field and build a quality sustainable structure in the most efficient and effective manner with minimal environmental impact. Fifteen credit hours (5 courses) taken in residence are required to complete the minor. Three courses are specified, with an additional two courses selected from the categories listed below. A cumulative grade point average of 2.0 or higher is required for the sustainable construction management courses in order to obtain the minor. Admission to the minor requires sophomore status, a cumulative grade point average of 2.5 or higher, and permission of the Construction Management Curriculum Director (205 Baker Lab). Eighteen credit hours are required to satisfy the minor.

Specified courses:

9 credits of required courses, including WPE 343 Construction Estimating (3); WPE 453 Construction Planning and Scheduling (3); WPE 454 Construction Project Management (3) and three additional courses (9 credits) that cover the following thematic subject areas: green construction; environmental rating systems; environmental impact analysis and management; renewable energy and energy auditing; or sustainable development and design.