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Buffalo State College

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# Buffalo State

State University of New York

*Undergraduate Catalog*

*1999 ~ 2001*

**BSC** Buffalo State College  
State University of New York

*Admissions Office  
1300 Elmwood Avenue  
Buffalo, New York 14222-1095*

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# BUFFALO STATE COLLEGE MISSION STATEMENT

Buffalo State College  
is committed to the intellectual, personal,  
and professional growth of its students, faculty, and staff.

The goal of the college is to inspire  
a lifelong passion for learning,  
and to empower a diverse population of students  
to succeed as citizens of a challenging world.

Toward this goal, and in order to enhance the quality of life  
in Buffalo and the larger community,  
the college is dedicated to  
excellence in teaching and scholarship,  
cultural enrichment, and service.

## 1999-2001 Buffalo State College Undergraduate Catalog

Buffalo State College  
1300 Elmwood Avenue  
Buffalo, NY 14222-1095

[www.buffalostate.edu](http://www.buffalostate.edu)

Buffalo State College is an affirmative action/equal opportunity institution that subscribes to all federal, state, and SUNY legal requirements and does not discriminate against applicants, students, or employees on the basis of race, sex, ethnicity, national origin, sexual orientation, religion, age, disability, or marital or veteran status. Any violation of this policy should be reported to the Equity and Campus Diversity Office, Cleveland Hall 415, (716) 878-6210.

This catalog is current as of March 1999. The college reserves the right to cancel any course described in this catalog, and to change any rules governing curriculum, administration, tuition, fees, admissions, regulations affecting students, dates, and course content. Each student is expected to have knowledge of the information contained in this catalog and in other college publications.

This catalog describes all undergraduate programs of the college. For graduate programs, consult the graduate catalog. For programs offered during the summer, consult the summer session catalog.

This publication was funded by an appropriation made available to Buffalo State College. The offices of the vice presidents supplied copy for their respective areas of responsibility.

Produced by the College Relations Office,  
Cleveland Hall 515,  
April 1999 50M 068

## CONTENTS

<b>Buffalo State College .....</b>	<b>3</b>
<i>Academic programs, Buffalo, Burchfield-Penney Art Center, campus environment, computing services, diversity, E.H. Butler Library, faculty, highlights of the campus, Great Lakes Center for Environmental Research and Education, opportunities, Performing Arts Center, sports and recreation, State University of New York, Whitworth Ferguson Planetarium</i>	
<b>Special Academic Programs .....</b>	<b>8</b>
<i>Academic support services, continuing education, creativity studies, evening study opportunities, internships, Educational Opportunity Program, interdisciplinary studies units, international education opportunities, pre-health and pre-law advisement, professional training, research in biology, student exchange programs</i>	
<b>Admissions .....</b>	<b>14</b>
<i>Applying to the college, evening study, international students, joint admission programs, special admission programs, summer session, transfer students</i>	
<b>Finances .....</b>	<b>19</b>
<i>Tuition, room and board, fees, estimated budget</i>	
<b>Financial Aid.....</b>	<b>22</b>
<i>Eligibility, how to apply, federal and state programs, employment opportunities, scholarships</i>	
<b>Student Services .....</b>	<b>31</b>
<i>Bookstore, career development, child care, commuter services, counseling, dining, health services, housing, leadership education, minority student services, orientation, service learning, services for students with disabilities, speech-language hearing services, student government, student organizations, student union, university police, veterans' services</i>	
<b>Academic Policies.....</b>	<b>38</b>
<i>Academic advisement, academic calendar, academic transcripts, alternate methods of earning college credit, declaring a major, eligibility for financial aid, grading, honors, probation/dismissal, registration, student complaints/grievances, teacher certification, withdrawal from classes or college</i>	
<b>Academic Organization .....</b>	<b>52</b>
<i>The faculties, departments within faculties</i>	
<b>Collegewide Degree Requirements.....</b>	<b>53</b>
<i>General education, global issues, and diversity requirements for all undergraduate degrees; requirements for English composition, foreign language, math competency, upper division, writing intensive; academic minors</i>	
<b>History of the College.....</b>	<b>60</b>
<b>Undergraduate Degree Programs and Minors at a Glance.....</b>	<b>61</b>
<i>Major and minor programs, honors and evening study options</i>	



## CONTENTS *continued*

### Program Descriptions and Degree Requirements .....65

65	<i>Anthropology</i>	84	<i>Geology</i>
65	<i>Art</i>	85	<i>Health and Wellness</i>
65	<i>Art Education (K-12)</i>	85	<i>History</i>
66	<i>Art History</i>	85	<i>Hospitality Administration</i>
67	<i>The Arts</i>	86	<i>Humanities</i>
67	<i>Biology</i>	86	<i>Industrial Technology</i>
67	<i>Biology Education (7-12)</i>	87	<i>Journalism</i>
68	<i>Broadcasting</i>	87	<i>Mathematics (B.A.)</i>
68	<i>Business and Distributive Education</i>	88	<i>Mathematics (B.S.)</i>
69	<i>Business Education</i>	88	<i>Mathematics Education (7-12)</i>
69	<i>Business Studies</i>	89	<i>Mechanical Engineering Technology</i>
69	<i>Chemistry</i>	89	<i>Music</i>
70	<i>Chemistry Education (7-12)</i>	90	<i>Painting</i>
70	<i>Communication</i>	90	<i>Philosophy</i>
71	<i>Computer Information Systems</i>	91	<i>Photography</i>
71	<i>Criminal Justice</i>	91	<i>Physics (B.A.)</i>
72	<i>Design (B.F.A.)</i>	91	<i>Physics (B.S.)</i>
73	<i>Design (B.S.)</i>	92	<i>Physics Education (7-12)</i>
74	<i>Dietetics: Coordinated Program</i>	92	<i>Political Science</i>
75	<i>Dietetics: Didactic Program</i>	93	<i>Printmaking</i>
75	<i>Earth Sciences</i>	94	<i>Psychology (B.A.)</i>
76	<i>Earth Science Education (7-12)</i>	94	<i>Psychology (B.S.)</i>
77	<i>Economics (B.A.)</i>	95	<i>Public Communication</i>
77	<i>Economics (B.S.)</i>	95	<i>Sculpture</i>
78	<i>Electrical Engineering Technology, Electronics</i>	96	<i>Social Studies Education (7-12, 5-6 Extension)</i>
78	<i>Electrical Engineering Technology, Power and Machines</i>	96	<i>Social Work</i>
79	<i>Elementary Education (Pre-K-6)</i>	97	<i>Sociology (B.A.)</i>
79	<i>English</i>	97	<i>Sociology (B.S.)</i>
80	<i>English Education (7-12)</i>	98	<i>Spanish Education (7-12)</i>
81	<i>Exceptional Education</i>	98	<i>Spanish Language and Literature</i>
82	<i>Fashion and Textile Technology</i>	98	<i>Speech Language Pathology</i>
82	<i>Forensic Chemistry</i>	99	<i>Technology Education</i>
83	<i>French Education (7-12)</i>	99	<i>Theater</i>
83	<i>French Language and Literature</i>	100	<i>Urban-Regional Analysis and Planning</i>
83	<i>General Studies</i>	100	<i>Vocational Technical Education</i>
84	<i>Geography</i>		

### Course Listings .....103

Refer to pages 103-104 for a guide to course listings, codes, and prefixes

### Administration .....172

### Faculty .....174

### Staff .....178

### Index .....181

### Campus Map .....184

### For Your Information .....inside back cover

Important telephone numbers

## Accreditations

All colleges and universities in New York State are accredited by the Middle States Association of Colleges and Schools and the Board of Regents, University of the State of New York. The following professional organizations have determined that Buffalo State programs meet even higher standards of excellence:

Accrediting Board for Engineering and Technology (ABET)\*  
Accreditation Commission for Programs in Hospitality Administration  
American Association of Museums  
American Chemical Society  
American Dietetic Association  
American Speech-Language-Hearing Association  
Council for Exceptional Children  
Council on Social Work Education  
International Association of Counseling Services  
National Association of Industrial Technology  
National Council for Accreditation of Teacher Education

\*Accreditation Board for Engineering Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202. (410) 347-7700.

## Honor Societies

Alpha Sigma Lambda  
*adult students*  
Epsilon Pi Tau  
*vocational technical education*  
Kappa Delta Pi  
*education*  
Omicron Delta Epsilon  
*economics*  
Phi Alpha Theta  
*history*  
Phi Delta Kappa  
*education*  
Phi Upsilon Omicron  
*nutrition and food science*  
Pi Delta Phi  
*French*  
Pi Sigma Alpha  
*political science*  
Psi Chi  
*psychology*  
Sigma Delta Pi  
*Spanish*  
Sigma Pi Sigma  
*physics*

## BUFFALO STATE COLLEGE

The only State University of New York (SUNY) college located in a metropolitan area, Buffalo State College offers unparalleled educational, cultural, and recreational opportunities. Our more than 11,000 students already enjoy the tremendous advantages at Buffalo State, both on the 115-acre campus and throughout the community. Buffalo State is the largest four-year college in the SUNY system, with more than 120 undergraduate academic programs in the arts, sciences, education, and professional programs. Small, diverse classes are taught by professional, dedicated faculty members. The campus is safe, accessible, and attractive, with excellent arts, athletics, and research facilities. A multitude of student organizations and clubs facilitate leadership and involvement in campus life. Buffalo State's location and reputation provide access to outstanding internship and employment opportunities with local firms. An exceptional value, Buffalo State is a leader in providing top-quality, affordable education in Western New York.

Buffalo State opened its doors in 1871 as the Buffalo Normal School, and has always focused on making quality education accessible to students while addressing the needs of the Western New York community. The college began by educating teachers, and later added undergraduate and graduate professional and liberal arts programs.

### Students Come First

At Buffalo State, students come first. On average, there is one faculty member for every 12 undergraduate students. Faculty meet with students each semester, one-on-one, to monitor their progress. Students will not be a number to their professors; the college prides itself on small classes led by highly trained faculty, with a great deal of individual attention.

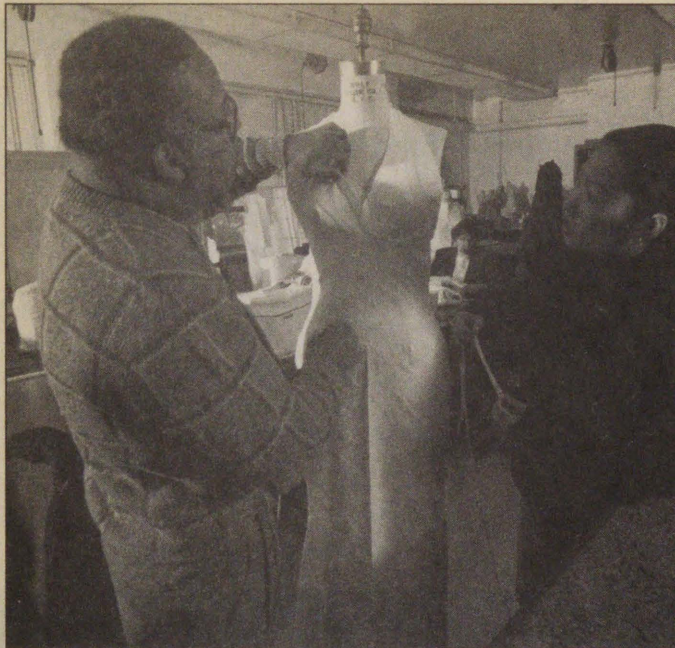
Every day, the college's professional staff demonstrates its commitment to students. The Academic Skills Center advises and tutors students. For those needing personal help, the nationally accredited Counseling Center provides counseling by licensed psychologists and social workers. The college health center stresses health education and preventive medicine, as well as diagnosis and treatment of illnesses. Professionals in the Residence Life Office offer dynamic, supportive programs for those living on campus. University Police provide personal safety and motor vehicle assistance. The Commuter Services



Office helps students find roommates or apartments, and helps them stay informed.

Each year, the incoming class is composed of approximately 55 percent first-year (first-time) freshmen, and 45 percent transfer students. The award-winning New Student Seminar Program, the Transfer Relations Office, and the Freshman Peer Mentor Program all help smooth the way for these new students.





### Talented, Caring Faculty

While many of our more than 600 full-time and part-time faculty are recognized for their research or professional practice in their fields, their first priority is teaching. The Buffalo State faculty has been commended as a "major source of excellence" by the Middle States Association of Colleges and Schools, the national accrediting body since 1948. Since 1977, 38 faculty have been awarded the prestigious SUNY Chancellor's Award for Excellence in Teaching.

All classes are taught by professional, degreed faculty, not graduate assistants. Most faculty hold doctorates or the highest degree in their fields from prestigious universities such as Bordeaux (France), Carnegie Mellon, George Washington, Harvard, Howard, Johns Hopkins, Manchester (England), Michigan, Moscow (Russia), Notre Dame, Penn State, Stanford, and Yale.

### Outstanding Value

A Buffalo State education is known for providing a broad, liberal arts education in the context of real-world relevance. Our students graduate with the skills they need to succeed as citizens of a challenging world.

An education at Buffalo State costs only one-third the average of a private college. Less than one-quarter of the cost of a Buffalo State education comes from tuition. The college meets the remaining costs with grants and private donations, state assistance, and auxiliary enterprises. Nearly 80 percent of all undergraduates received an average of \$5,671 in financial aid during 1997-98.

### Flexible Academic Programs

Bachelor's degrees are available in 71 majors and 50 minors. There are many flexible minor, interdisciplinary, and special programs, including African and African-American Studies; Creative Studies; "three-two" physics-engineering (in cooperation with Binghamton University, Clarkson University, and the University at Buffalo); and Women's Studies; as well as pre-profes-

sional advisement for law, medicine, sports medicine, and veterinary science.

To accommodate many nontraditional students, including those who work full time, Buffalo State offers 15 undergraduate degree programs and six minors during evenings and weekends. The All College Honors Program is open to a select number of students each year, accompanied by scholarships. SUNY's oldest and largest Educational Opportunity Program (EOP) at Buffalo State helps those who may not otherwise have the academic preparation or financial means to attend college.

There are many ways to make the dream of a college education a reality. Buffalo State faculty and staff can help students plan their paths.

### Celebrating the Diversity of Our Community

Buffalo State prides itself on the diversity of its student body—a reflection of today's society—with nontraditional ("older") students, students with disabilities, underrepresented minorities, students of many religions and ethnic backgrounds, and international students. More than 90 student clubs, facilitated by the Student Life Office, encourage students to participate in advocacy, cultural, ethnic/minority, academic, fraternity/sorority, leadership, professional, religious, and sports/recreation organizations. This diversity allows students to learn, play, and grow in a supportive environment, where differences among individuals are appreciated.

- Approximately three-fifths of all graduate and undergraduate students are female.
- Buffalo State enrolls the largest number of minority students of any SUNY college in Western or Central New York.
- Buffalo State enrolls the largest number of physically challenged individuals in any SUNY four-year college or university; all classrooms and library facilities on campus are barrier-free.
- In 1997, more than 150 international students, from more than 50 countries, attended Buffalo State.
- Fifteen percent of the faculty are African-American, Asian, Native American, or of Hispanic origin, and half the faculty is female.

### Exceptional Sports and Recreation

The college's 70,000-square-foot sports complex houses Buffalo's only college ice hockey rink, and is home to the NCAA Division III Bengals and Lady Bengals basketball teams. The complex includes a dance studio, pool, racquetball courts, weight and fitness rooms, indoor track, outdoor track, fields, and tennis courts.

The college has varsity men's and women's basketball, cross country, ice hockey, swimming and diving, soccer, and indoor/outdoor track, as well as varsity men's football and varsity women's lacrosse, softball, tennis, and volleyball.

The campus is adjacent to historic Delaware Park and its running trails, bike paths, golf course, and tennis courts. Buffalo State students can sail, fish, boat, and swim on nearby Lake Erie. Several large state parks, about an hour away, offer swimming, hiking, camping, and outdoor fun. Commercial ski areas, less than 40 minutes away, offer downhill and cross-country skiing, snow boarding, and snow tubing. The college owns Whispering Pines Camp, in Ellicottville, New York, used for recreation and academic retreats.

Buffalo is home to many professional sports teams: Bills (football), Bisons (baseball), Blizzards (indoor soccer), Bandits (lacrosse), Wings (roller hockey), Destroyers (arena football), Nighthawks (women's baseball), and Sabres (ice hockey).

### Unlimited Opportunities

Outstanding opportunities for internships and clinical practice abound. Because Buffalo State is located in a large metropolitan area with a population of 1.1 million, the college can arrange many internships close to campus, unlike colleges in small-town settings. There are more opportunities for undergraduate research and independent study at Buffalo State than at SUNY university centers, which usually offer such opportunities only to graduate students.

The college's study abroad programs allow students to study in 53 different countries. Through the Career Development Center, students often find help in launching their career goals, with an alumni network of more than 63,000 individuals.

### The Campus Environment

The only SUNY college located in a metropolitan environment, Buffalo State's 115-acre campus features ivy-covered historic buildings blended with modern architecture. The campus is easily reached by public transportation or car, and provides a safe, serene, "village-like" atmosphere.

For its 11,000 students, the surrounding community "extends" the college experience. The campus is tucked into Buffalo's vibrant Elmwood Museum district, with its trendy cafés, retail shops, and nightspots. The neighboring North Buffalo residential streets are lined with attractive Victorian and colonial homes. The city's theater district is minutes away.

### Highlights of the Campus

- The Burchfield-Penney Art Center, housing the world's largest collection of works by internationally renowned watercolorist Charles Burchfield
- E.H. Butler Library: 463,000 volumes, 119,000 periodicals. Special collections include videos and scripts of *Homicide: Life on the Street* and *St. Elsewhere*, by alumnus Tom Fontana; and *Murphy Brown* and *Love and War* scripts by alumna Diane English
- The Great Lakes Center for Environmental Research and Education: field station and research vessels on Lake Erie (10 minutes from campus)
- Whitworth Ferguson Planetarium
- Fully equipped television studio
- Lively student union, with eateries, gathering places, and the college's student-run radio station

### Buffalo — City on the Lake

Buffalo is the second largest city in New York State, and home to world-class cultural and recreational venues, including the Albright-Knox Art Gallery (across the street from Buffalo State), the Buffalo Philharmonic Orchestra, the Buffalo Museum of Science, Shea's Buffalo Center for the Performing Arts, and several buildings by renowned architect Frank Lloyd Wright. The city is large enough to have plenty to do and see, but small enough to be very manageable.

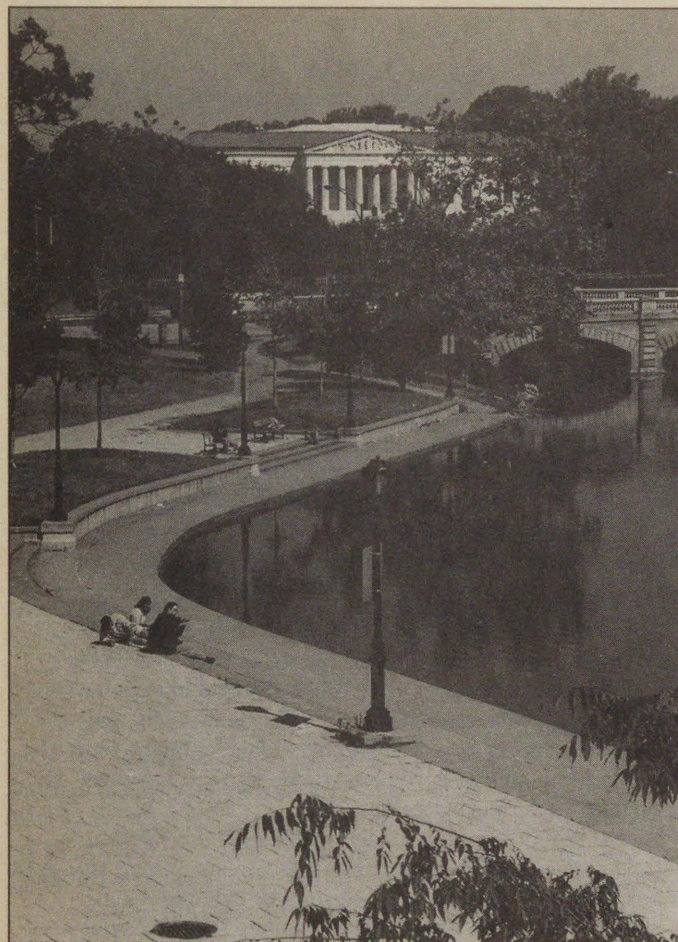
One of the most visited natural wonders of the world—Niagara Falls—is a half hour away; Canada's largest city, Toronto, is less than two hours away by car, bus, or hydrofoil boat.

Buffalo winters are often cold and snowy, but the city gets less snow than Syracuse, and the same amount as Rochester. The National Weather Service ranks Buffalo summers as the driest, the sunniest, and the coolest of any major city in the Northeast.

Buffalo is serviced by Amtrak, national bus lines, and an international airport.







### The State University of New York

The State University of New York (SUNY), a statewide system of 64 campuses, enrolls more than 547,000 students. It is the largest, most diverse multi-campus university in the nation. SUNY is committed to bringing its students the best and brightest faculty, and the promise of a caring learning environment. State support keeps SUNY tuition much lower than rates charged at private colleges and universities.

### Unique to SUNY

Buffalo State leads the way in SUNY in obtaining external research funds. In 1996, \$17 million in research faculty funds were obtained, accounting for nearly half of all the external research funds to all SUNY four-year colleges. The college has the largest elementary education program and exceptional education program in New York State. It has the largest and most extensive visual arts program in the SUNY system.

Buffalo State is the only SUNY institution with:

- accreditation by the National Council for Accreditation of Teacher Education;
- its own fleet of research vessels and research lab on the Great Lakes;
- the world's largest collection of Charles E. Burchfield's watercolors;
- the world's largest collection of creativity studies materials;
- housing designed to accommodate students and their children.

### Burchfield-Penney Art Center

Rockwell Hall, Third Floor, (716) 878-6011

Established in 1966, the Burchfield-Penney Art Center is both a dedicated and a regional museum. It collects, conserves, exhibits, interprets, and cultivates the achievements of Western New York artists, with an emphasis on the work of renowned American watercolorist Charles E. Burchfield (1893-1967). In recognition of a pivotal gift of works by Charles Burchfield, as well as gifts of important collections of Roycroft objects, craft art, and Western New York art, the center was rededicated as the Burchfield-Penney Art Center in April 1994 in honor of local collector and benefactor Charles Rand Penney.

Because Burchfield had a deep and abiding interest in the arts and education, the center also is a forum for multidisciplinary articulations of the arts and culture of Western New York, including the literary arts and music. A visit reveals the talent and artistic heritage of Western New York, from the traditional to the cutting-edge. The museum serves as a resource center for students, faculty, and the community through its programs, lectures, symposia, and archives. The center is accredited by the American Association of Museums.

The center serves the college community as a teaching museum. The collections curator teaches a senior seminar course, enabling students to participate in planning, developing, and installing exhibitions. The education curator trains students to become docents—guides who can teach others about the collection and lead tours of the exhibitions. The education curator also trains graduate students how to use art and museum resources to teach interdisciplinary studies, particularly for special-needs audiences.

The center is open from 10 a.m. to 5 p.m. Tuesday through Saturday, until 7:30 p.m. on selected Wednesdays, and from 1 to 5 p.m. on Sunday.

### E.H. Butler Library

Located in the center of campus with seating for more than 1,200 patrons, Butler Library houses a diverse collection of approximately 500,000 books, 850,000 microforms, and more than 12,000 audiovisual items, including more than 4,000 videotapes.

In addition to its many journal holdings, Butler Library makes electronic delivery of information available. SHERLOCK, the on-line catalog, is accessible from any terminal on the campus network and by dial-up, as well as from terminals in the library. In addition to its 186,000-square-foot facility, Butler Library is a stop on the information highway, providing access through the SHERLOCK gateway to other library catalogs, bibliographic indexes, full-text informational databases, and the Internet. The Reference Services Department provides skilled reference librarians to help students meet their information needs. Media Services provides multimedia and self-instructional facilities, including computers for student use. Archives/Special Collections contains the official and historic documents of the college dating from the 1860s, and a wide range of unique materials in special collections. The Curriculum Lab houses elementary- and secondary-level books, including current textbooks and children's literature. There is also a Creative Studies collection.

Informational handouts detailing library services, hours, maps, and other important data are available in the library or by dialing into SHERLOCK and viewing the Library Information screen, or on-line at <http://www.buffalostate.edu>.

### Computing Services

Twin Rise 208, (716) 878-4611

Computing services provides computing hardware, software, and networking for instruction, research, and administrative activities on campus. E-mail accounts are provided to all registered students. Access to e-mail, the campus mainframe (DEC Alpha) computer, the library's SHERLOCK on-line catalog, and the Internet is available in more than 20 networked student computer laboratories on campus. Equipment in the labs includes more than 550 Intel and Macintosh microcomputers, which provide access to more than 50 instructional programs, including MS Office PRO (Access, Word, Excel, Powerpoint), Netscape, and various programs for desktop publishing, drawing, CAD, and statistical analysis (SPSS).

Contact the Computing Services Office for information about computer accounts. For answers to computer questions, students should consult a student proctor in the labs, stop by the HELP Desk in Twin Rise, or call (716) 878-4357 (HELP).

### Great Lakes Center for Environmental Research and Education

Classroom Building C 215, (716) 878-4329

The Great Lakes Center was established to increase the role of Buffalo State College in environmental research and education, with a focus on the unique ecological issues of the Great Lakes Basin. The center brings together more than 30 affiliated faculty from eight different academic departments. Research is conducted in aquatic ecology, fisheries, environmental toxicology and chemistry, urban ecology, and environmental education. Undergraduate internship opportunities provide hands-on training in environmental science that significantly broadens students' educational experiences and future career prospects.

The Great Lakes Center consists of a complex of laboratories, including environmental toxicology, chemistry, microbiology, and computer laboratories on the main campus, and an aquatic research laboratory on a 3.5-acre site at the confluence of Lake Erie and the Niagara River. These modern facilities include fish and zooplankton culture rooms, acoustic instrumentation for fish abundance measures, a data visualization laboratory, flow-through experimental laboratories, classroom facilities, a library, and a variety of computer systems and workstations. The Great Lakes Center is also well-equipped for field research and maintains the R/V Aquarius, a 40-foot research vessel, an electroshocking boat, a fleet of smaller craft for nearshore sampling, and a variety of sampling instruments.

### Performing Arts Center

Rockwell Hall 210, (716) 878-3032

The Performing Arts Center at Rockwell Hall is a resource for both Buffalo State College and the community, and serves as a vital link between the college and its metropolitan surroundings. Since being renovated and reopened in 1987, Rockwell Hall Auditorium has become one of the most active and popular venues for the performing arts in Buffalo. The contemporary, 856-seat theater has hosted a spectacular array of performers from around the world, who have added depth and variety to the cultural fabric of the college and the Western New York community.

The staff of the Performing Arts Center offers support services to college departments and to many community organizations sponsoring events in Rockwell Hall Auditorium. In addition, the Performing Arts Center is a cultural presenter, sponsoring performances for adult audiences and school groups. Visiting artists often present workshops, classes, or informal lecture demonstrations at the college and at various locations in the community, in addition to their formal performances.

Tickets and performance information are available from the box office at (716) 878-3005, or TTY (716) 878-3031.

### Whitworth Ferguson Planetarium

Science Building 118, (716) 878-4911

Students taking astronomy courses have the opportunity to use the planetarium as a laboratory. They assist in maintaining, improving, and operating the equipment and in developing presentations about the planets, stars, and constellations. The planetarium schedules a number of public shows and programs during each school year. All students may attend these presentations for a small fee. The planetarium also arranges educational programs attended by thousands of area school children and adults annually, and students are welcome to attend these daily shows on a space-available basis.





## SPECIAL ACADEMIC PROGRAMS

### Academic Skills Center

*South Wing 230/310, (716) 878-4041*

The Academic Skills Center offers students professional support by developmental education specialists to facilitate educational and academic growth. The center is designed to provide developmental and enrichment assistance to students who are referred for or seek services. Created to meet the needs of the college population, the center works with student services and academic departments to help students acquire and strengthen college-level academic and study skills. The center is responsible for providing services to individuals with disabilities, as required by the Americans with Disabilities Act.

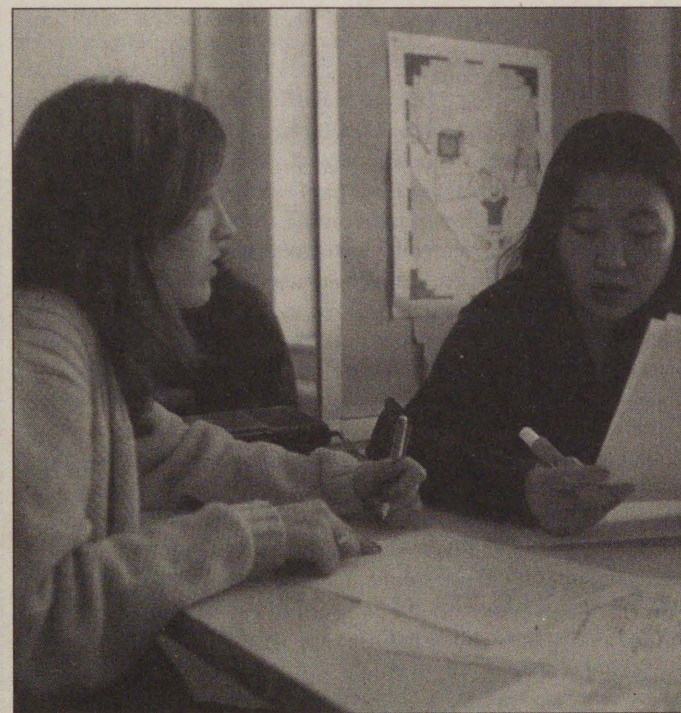
Services include:

- Improvement and development of academic skills, especially reading, math, and writing, through coursework and tutoring
- Development and implementation of support programs for probationary students and students identified as at-risk
- Instruction, reinforcement, and enhancement activities to maximize academic potential
- Diagnosis of academic skills deficiencies with basic skills testing and appropriate placement
- Supplemental instructional activities to promote success in selected courses
- Computer-assisted instruction in reading, writing, math, selected courses, and preparation for the math competence examination, the GRE, and the New York State Teacher Certification Examination
- Noncredit instruction in word processing
- Individual and group instruction in English as a second language
- Support services for students with disabilities

### Center for Studies in Creativity

*Chase Hall 244, (716) 878-6223*

The Center for Studies in Creativity (CSC) offers a unique unit within Buffalo State College. As a designated campus "Center of Excellence," it provides a variety of information services to the field and an academic program at both the graduate and undergraduate levels. Center faculty conduct research, teach, and work



with a variety of groups and organizations to improve the understanding of creativity and creative problem solving.

The history and development of CSC are tied to the work of Alex F. Osborn, the developer of the brainstorming technique and the creative problem solving (CPS) process. Osborn, director of the New York City-based advertising agency Batten, Barten, Durstine and Osborn (BBDO), used his work to encourage innovative thinking among his associates and, later, among young people. His successor, Sidney J. Parnes (professor emeritus), founded the center at Buffalo State in 1967. Osborn's work and continued development of the CPS process are a focus of the center faculty and students.

The center's programs have a 30-year tradition of research, development, and teaching in the field of creativity studies. Documentation of the program's effectiveness shows impact on students' personal and professional growth.

The educational program consists of courses that can lead to

an undergraduate minor in creative studies, a graduate certificate, and a master of science degree in creative studies. Courses help students to become better thinkers and problem solvers and to work more effectively with groups. Skills developed in creative studies courses help improve performance in other classes and provide a competitive edge in the job market. Our alumni work in business and industry, education, the social sciences, technology, and the arts. Companies or organizations interested in change or change management find creative studies skills to be particularly useful. Courses are interactive and contain hands-on projects suitable for adult learners.

The center provides several unique information resources and services for students, faculty, visiting scholars, and other interested individuals or groups. In conjunction with Butler Library, the Creative Studies Special Collection comprises the largest creativity library in the world. The collection includes print and nonprint resources, books, curriculum materials, software programs, dissertations, research projects, and theses on creative thinking and its cultivation. The Creativity-Based Information Resources (CBIR) database is also maintained by the center and includes annotations of periodical literature, chapters, software, assessments, and other resources relating to the study of creativity, invention, and innovation.

The center's academic program is enhanced by the Alex F. Osborn Visiting Professorship, which has attracted some of the most important creativity researchers to the campus.

### Cooperative Education

Cooperative Education is a collegewide program that gives students the opportunity to gain career experience while pursuing classroom studies. Periods of classroom study are alternated with periods of employment on a job or internship related to academic and career objectives.

This is a voluntary program available to all undergraduate students who have completed a minimum of one year and are in good academic standing. College credit may be earned for each cooperative experience. Cooperating organizations and institutions host students in a broad spectrum of disciplines and diverse careers goals. They include government agencies, for-profit organizations, and not-for-profit organizations. Further information can be obtained from the appropriate dean's office for students seeking credit.

### Educational Opportunity Program

*South Wing, 5th, 6th, and 7th floors, (716) 878-4225*

*Admissions: Cleveland Hall 210, (716) 878-4415*

The Educational Opportunity Program (EOP) is an academic support service designed to assist students who, because of limited financial and academic resources, have not had sufficient opportunities and access to pursue higher education. Students enrolled in the college through EOP have proven themselves to be highly motivated and successful despite challenges they may have encountered prior to entering. To be eligible for admission to the college through the program, applicants must qualify according to economic and academic guidelines, and provide supporting documentation as requested by the Admissions Office.

Buffalo State's Educational Opportunity Program was initiated in 1967 as the first program in SUNY, and remains one of the largest. EOP provides the following support services to eligible

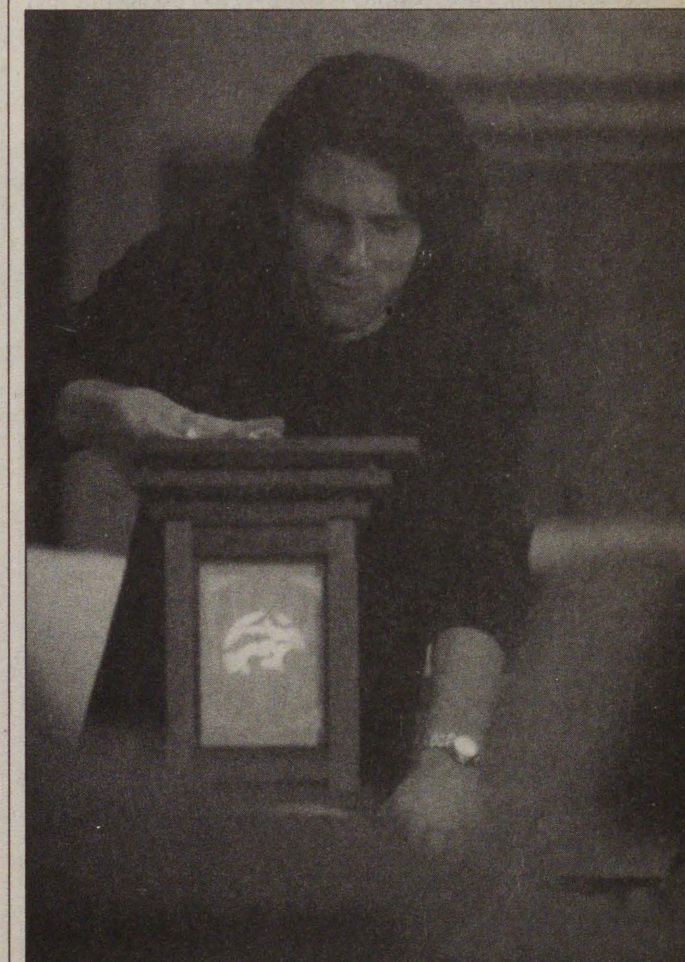
freshmen and transfer students: academic advisement and counseling, tutorial assistance, summer orientation programs, mentoring activities, specialized workshops, financial aid, and a variety of retention initiatives (designed to enhance student retention and graduation).

Each student is assigned an EOP adviser who facilitates many of the support activities and monitors the student's overall progress. The EOP staff works with all campus offices to provide students with information regarding college resources and services.

The Educational Opportunity Program sponsors an extended summer orientation program for freshmen. The EOP pre-freshman summer program is usually offered in July and August and provides a six-week enrichment experience for eligible students who have been accepted to the college for the fall semester. Students have the opportunity to improve their basic skills and competencies through instruction, study groups, and tutorial sessions. In addition, they participate in a variety of college resource workshops, group activities, cultural and enrichment programs, recreational field trips, and other activities that promote a smooth transition to college.

The Educational Opportunity Program sponsors an annual honors convocation program to recognize the academic achievement and scholarship of students in the program. Many graduates of EOP are distinguished alumni who have made significant contributions to the college and their communities.

General information regarding EOP eligibility and the application process can be found in the SUNY Application Guidebook.





### Instructional Resources Center

Bulger Communication Center, (716) 878-4104

The Instructional Resources Center (IRC) provides media support for classroom instruction, scholarly activities, and research.

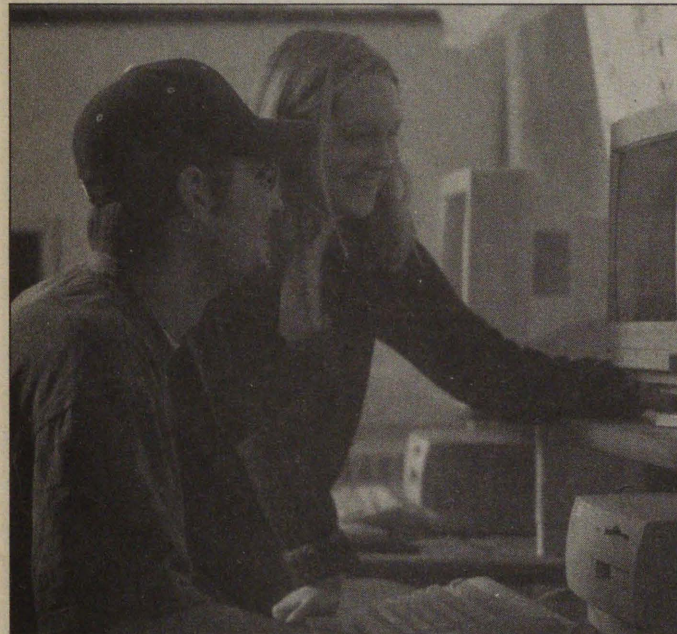
The IRC produces slide shows, photography, computer graphics, transparencies, and television and audio productions. It provides audiovisual equipment in support of instruction and a full range (video conferencing/resource programs) of satellite television programming. The campus closed-circuit cable television system can transmit programming to more than 300 locations.

In addition, lectures and special events may be audio or video-taped and made available for future use. The IRC also repairs all college-owned AV equipment. The center's professional staff is available to assist in recommending equipment for departmental purchases.

### Interdisciplinary Units

The college has a number of interdisciplinary units designed to give expanded attention to areas of particular importance.

- **The African and African-American Studies Interdisciplinary Unit** coordinates academic programs related to the study of the history and culture of African and African-American peoples. Contact M. Bahati Kuumba, coordinator, Classroom Building HB322, (716) 878-6211.
- **The General Studies Interdisciplinary Unit** coordinates a program directed primarily at working adults. Contact Margaret A. Shaw, coordinator, Twin Rise 100, (716) 878-5906.
- **The Secondary Education Interdisciplinary Unit** encourages excellence in secondary teacher education while serving as a line of communication linking the many secondary education programs on campus. Contact the Dean of the Faculty of Applied Science and Education, (716) 878-4214.
- **The Women's Studies Interdisciplinary Unit** coordinates and initiates activities with other academic and community groups involved with women's issues. Contact Rafika Merini, coordinator, Bishop Hall 222, (716) 878-6403 or 4830.



### International Education

Cleveland Hall 416, (716) 878-4620

Buffalo State is strongly committed to providing all students the opportunity to develop a better understanding of different cultures. Students have a rich opportunity to expand their educational experiences through study abroad. They can apply for any one of about 300 SUNY-sponsored programs. Of these, Buffalo State sponsors 10; four in Australia and one each in England, Italy, the Netherlands, Puerto Rico, Quebec, and Spain. The program in Salamanca, Spain, is jointly sponsored with the University at Buffalo and Oswego State. The development of additional programs is in progress.

Credits earned while abroad are placed on the student's official transcript and all grades are included in computing the GPA. Overseas study in a non-English speaking country fulfills the college's Global Issues requirement. Specific information regarding overseas programs, including costs and application procedures, can be obtained in the International Education Office.

Students planning to go overseas are encouraged to make preparations early. Foreign language knowledge is frequently very beneficial, even if it is not required for many of the programs abroad. April 1 is the application deadline for study abroad scholarships for the following summer, fall, and spring.

Buffalo State college-sponsored overseas academic programs are as follows (programs are subject to change without notice):

#### Australia

*The University of South Australia-Adelaide, South Australia*

Fall: late July through late November; spring: late February through late June; academic year: late February through late November. Full curriculum available.

*The University of Newcastle, Callaghan, New South Wales*

Fall: mid-July through late November; spring: late February through late June; academic year: late February through late November. Full curriculum available.

*Central Queensland University, Rockhampton, Queensland*

Fall: mid-July through mid-November; spring: mid-February through late June; academic year: mid-February through mid-November. Full curriculum available.

*Royal Melbourne Institute of Technology, Melbourne, Victoria*

Fall: mid-July through mid-November; spring: late February through late June; academic year: late February through mid-November. Full curriculum available.

#### England

*Manchester Metropolitan University*

Normally fall semester but spring sometimes available. Program runs from mid-September through mid-December. Full curriculum available.

#### Italy

*Siena Program (associated with the University of Siena)*

One semester of college-level Italian required. Fall semester runs from early September through mid-December; spring semester runs from late January through early May. Curriculum includes Italian language and culture, history, literature, art history, and studio art. (Courses offered based on enrollment.)

### The Netherlands

*Amsterdam School of Business*

Fall, spring, or academic year. Fall: late August through mid-December; spring: late January through mid-June; academic year: late August through mid-June. For juniors and seniors in business and economics. Courses in international trade, marketing, finance, law, accounting, computing, management, Dutch, French, German, and Spanish. All but language courses are taught in English.

### Puerto Rico

Summer only. Two-and-a-half-week study tour of major cities, smaller towns; and rural areas, as well as Vieques and Culebra, two of the three islands off the mainland of Puerto Rico. Focus is on the broad spectrum of racial, socioeconomic, cultural, and social diversity, as well as environmental issues, and Puerto Rico's relationship with the United States. Preparatory workshops and research prior to departure.

### Quebec

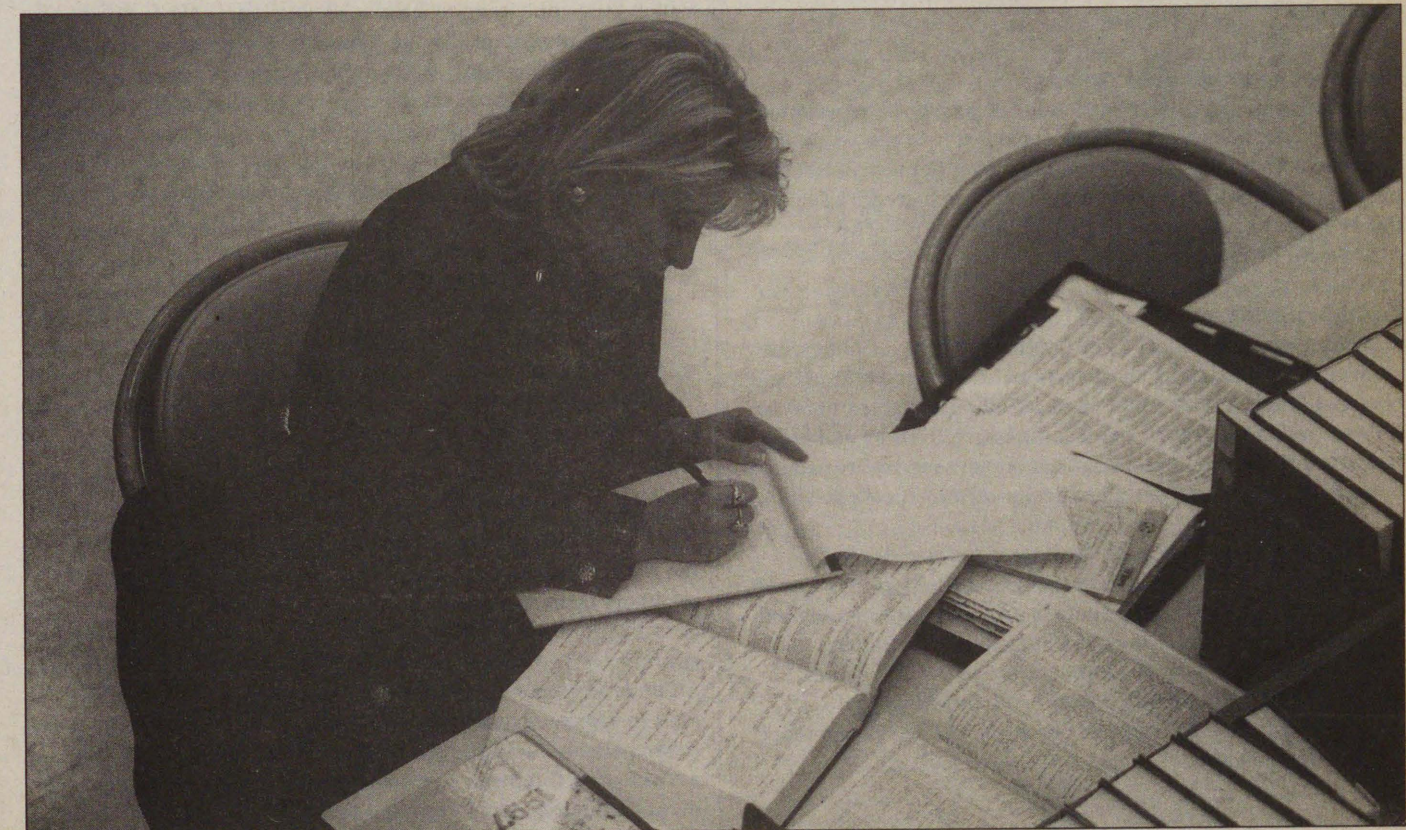
*Trois-Pistoles French Immersion School*

Program runs for three weeks, late June or early July through mid- or late July. No previous French required. Intensive French language and Quebecois culture.

### Spain

*University of Salamanca (jointly sponsored by the University at Buffalo and Oswego State)*

Summer only. Late June through late July or early August. One year of college-level Spanish required. Five-week program with first week in Madrid. Language competency test administered by the University of Salamanca. Courses available: Spanish language, culture.



### Other

Faculty and staff may develop short-term study sessions in Egypt, Senegal, and other countries. Information on these options may be obtained in the International Education Office.

### Lifelong Learning Center

*Twin Rise 100, (716) 878-5906*

The Lifelong Learning Center brings the substantial resources of Buffalo State to the community at large. Its primary emphasis is adult and evening education for credit and noncredit.

### Evening Degree Programs for Evening Students

Probably the fastest growing population at Buffalo State is evening and adult students. The college finds that adults as a group are among its most dynamic students.

Fifteen undergraduate majors and six academic minors can be completed exclusively through evening study. Lifelong Learning functions as the evening student's advocate, monitoring and coordinating the orderly provision of all necessary requirements.

### The Evening Student Assistance Center

This comprehensive, student-centered office ministers to the needs of the college's growing evening student body. The Evening Student Assistance Center is open until 9 p.m. every night that school is in session throughout the fall and spring semesters. It seeks to assure that any working adult student, either present or prospective, can meet all of his or her administrative or student service needs without having to visit the college during daytime hours. Prompt individual attention to the needs of the student is paramount.





#### General Studies Degree

This flexible interdisciplinary degree program is designed specifically to meet the educational, research, and career needs of the working adult student. General studies allows a student to design a course of study around a central theme, issue, or problem.

#### Credit for Experiential Learning

Students can earn college credit for college-level experience developed outside the classroom, conceivably in the workplace or in the community. The Lifelong Learning Center coordinates the process by which a student may seek such credit. Usually, this is done through a special course: AEL 300W—The Assessment of Experiential Learning.

#### Continuing Education

Lifelong Learning offers a comprehensive array of noncredit courses to meet the various avocational, career, travel study, and personal self-development interests of all potential learners. Courses tend to be shorter, non-competitive, friendly, and inexpensive. Many businesses like the program's certificate program options. They make an excellent bridge to formal college study.

#### Professional Training and Development Services

Lifelong Learning meets the training and development needs of many area employers. The center provides custom-designed courses, seminars, workshops, organizational and training needs analyses, and employee development programs. The center works with each organization to provide individualized programs, either on the premises or at the college's conference and training facilities.

#### National Student Exchange

*Special Programs Office, Cleveland Hall 417, (716) 878-4328*

A program designed to expand the scope and variety of academic, social, and cultural experiences available to students, the National Student Exchange enables qualified students to spend a semester or a year at one of more than 150 colleges and universities in 50 states and U.S. territories. To be eligible, a student must be in good standing and have a minimum GPA of 2.5.

The program, organized through the National Student Exchange Consortium, provides an inexpensive means of studying in another state by paying tuition at Buffalo State or at the host school at the resident rate.

#### Pre-Health Professions Advisement

Medical, dental, and other health professions schools require a strong undergraduate preparation in the sciences. Buffalo State offers all the courses required for admission to medical, dental, osteopathic, veterinary, optometry, podiatry, chiropractic, and other health professions schools. There is no specific degree required for entrance into these schools. All, however, require a background in biology, chemistry, mathematics, and physics. Individual schools have their own requirements, but the course of study listed below should meet the requirements of any health professions school. The entrance examinations for medical, dental, and other health professions schools test for mastery of material from these courses.

The pre-health professions adviser and the Pre-Health Advisory Committee of Buffalo State help students who are interested in entering one of the health professions by providing advice about the application process, and preparing a package of support materials for the student's applications. The committee also conducts an evaluation of students, when the schools to which they apply require such an evaluation.

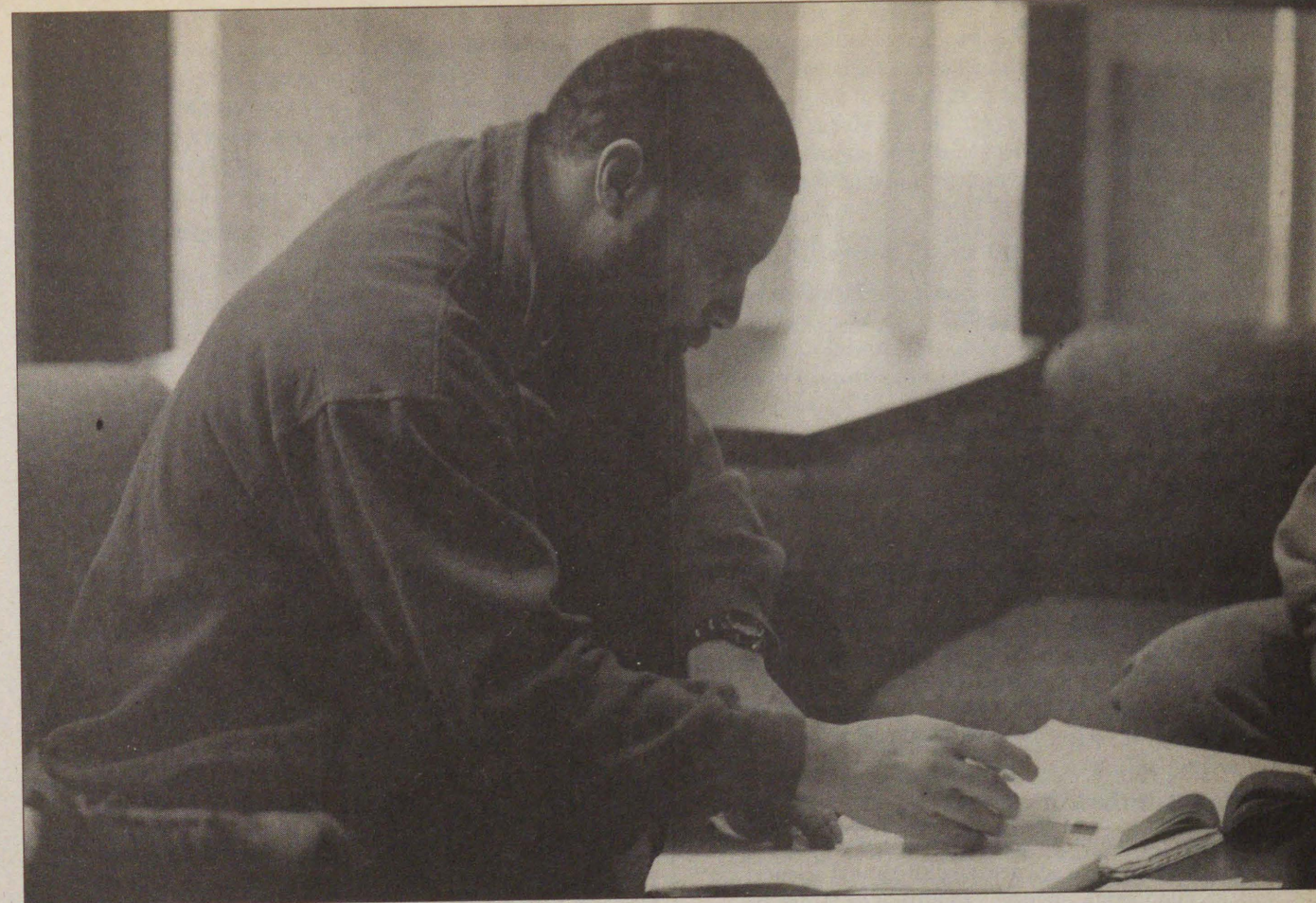
It is very important that students who are interested in the health professions contact the pre-health adviser as soon as possible to begin the advisement process and to plan the application process. Initial contact should be made through the pre-health staff assistant, Kelly Boos, in the office of the dean, Faculty of Natural and Social Sciences, Classroom Building A113, (716) 878-6674.

#### Suggested science courses for pre-health students:

Biology (8 cr minimum)	BIO 116, BIO 214 plus elective(s)
General Chemistry (8 cr)	CHE 111, CHE 112
Organic Chemistry (8 cr)	CHE 201, CHE 202 with labs
General Physics (6-8 cr)	PHY 111, PHY 112
Math/Calculus (3-6 cr)	MAT 126, MAT 127

#### Pre-Law Advisement

To assist students who eventually plan to attend law school, the college provides a pre-law advisement service. Faculty members familiar with the legal profession are available for consultation on such matters as recommended undergraduate courses, LSATs, law school admission practices, and related areas. An undergraduate moot court program, one of the few of its kind in the country, is available during the spring semester. It is strongly recommended that students interested in law take advantage of this service by contacting the chair of the advisement committee, Classroom Building B215, (716) 878-6205.



#### Research in Aquatic Biology

Several biology faculty conduct research in various aspects of aquatic sciences. Much of this research involves work on Lake Erie, Lake Ontario, and the Niagara and Buffalo Rivers, and is based at the college's field station located on the Buffalo waterfront. This newly remodeled field station supports several research vessels including the 42-foot R/V Aquarius and flow-through experimental laboratories.

General faculty research interests involve microbial ecology, parasitology, evolutionary genetics, limnology, ichthyology, wetland ecology, biotelemetry, phycology, behavior and physiological ecology, and ornithology. Ongoing research projects include biology of zebra mussels, the role of bacteria in Buffalo River sediments, and biology of endangered wildlife.

#### ROTC

Students may enroll in Army ROTC at neighboring Canisius College by cross-registering for the appropriate courses.

#### Uncommitted Academic Advisement Center

*South Wing 120, (716) 878-5223*

This center provides academic advisement for all uncommitted (0900) students. The center also offers general academic counseling, helps to interpret academic policies, and assists in solving academic problems. The center is staffed with faculty who are especially interested in helping students.

Each semester, uncommitted students will receive letters reminding them that academic advisement is required for all Buffalo State students prior to course registration. Students are requested to schedule individual appointments for advisement. Students are also welcome to walk in or call the center for assistance any time.

#### Visiting Student Program

*Special Programs Office, Cleveland Hall 417, (716) 878-4328*

Through the Visiting Student Program, Buffalo State students may attend other participating colleges and universities for a semester or a year. Interested students should consult with their academic advisers about institutions that may best meet their educational goals. Applications are available from the Special Programs Office. Departmental approval is required as part of the application process. Deadlines are May 1 for the fall semester and November 1 for the spring semester. There is no visiting student status during the summer.

A variety of paid internship opportunities in Albany are also available to undergraduates in most fields of study through the Albany Semester Program.



# ADMISSIONS

Admission to Buffalo State College is based on the academic and personal qualifications of the applicant and is granted without regard to race, sex, ethnicity, national origin, sexual orientation, religion, age, disability, or marital or veteran status of individuals.

Specific questions may be directed to the Admissions Office, Cleveland Hall 206, (716) 878-4017. E-mail: [admissio@buffalostatedu](mailto:admissio@buffalostatedu).

## Freshman Admission

High school preparation should be broad and balanced with study in the areas of social science, English, natural science, mathematics, and foreign language. Admission decisions are based on a variety of factors, including high school grades, rank in class, strength of program, scores on standardized examinations, i.e., SAT or ACT, and high school recommendations.

Applicants for admission to the freshman class must provide official high school transcripts showing all courses completed and grades earned. Satisfactory results of the state high school equivalency diploma program are also acceptable. Candidates for admission must also provide results of the Scholastic Assessment Test (SAT) or the American College Testing Program (ACT). The highest standardized test results are used when multiple score reports are received.

Freshman applicants may indicate a curriculum choice, but it is not necessary. Those who do not indicate a major must select one by the second semester of their sophomore year. Freshmen can be accepted directly into their major. Once enrolled, they must meet additional departmental requirements for entrance into the program.

Freshman applicants to the journalism, broadcasting, and public communication programs may be accepted into a mass media sequence. All mass media students receive advisement from the Communication Department and must meet its requirements prior to formal entrance into the major.

Freshman applicants to the business studies, business education, business and distributive education, computer information systems, design, forensic chemistry, music, and social work programs are accepted into a pre-major sequence. All pre-major students receive advisement from their departments and must meet their requirements prior to formal entrance into the major.

A limited number of freshman applicants to exceptional education, engineering technology, and speech language pathology are admitted directly into the programs on a competitive basis. All other applicants otherwise eligible for admission to the college are accepted into the college as uncommitted students who, once enrolled, must meet additional departmental requirements for entrance into the major.

## Early Decision

Early Decision is an early application, early notification program at your first college choice. If you apply under Early Decision at Buffalo State, you will be allowed to apply to other colleges for regular admission while awaiting a decision. If you are accepted, however, you will be expected to make a tuition deposit at Buffalo State and to withdraw your applications at other institutions.

- The following deadlines and notification dates have been adopted by SUNY campuses for Early Decision applications:
- Your SUNY application must be filed on or before November 1 at the Application Processing Center. APC will process and forward your application to us by November 15.
  - We will notify you of our early decision by December 15.
  - If accepted, you will be expected to make your tuition deposit by January 15.

If you file your application in the early fall, any change in the Early Decision college choice must be requested in writing and must be received by the Application Processing Center prior to November 1. EOP applicants cannot be considered for early decision.

## Success Track for Academic Readiness (STAR)

Each year Buffalo State accepts a limited number of general freshmen who would not normally be admissible if academic criteria were the sole basis for decision. Individuals who possess special talents (in the arts or athletics, for example), those who are 21 years of age or older, those with extensive involvement and leadership roles in school or community activities, those whose academic records were adversely affected by unusual circumstances (such as illness or family crisis), or members of historically underrepresented groups (African-American, Latino, Asian-American, or Native American) may receive special consideration. Individuals accepted under this program may be required to take a reduced course load their first year and receive a variety of support services. Those wishing to be considered under this program should contact the Admissions Office for further details.

Asian-American, or Native American) may receive special consideration. Individuals accepted under this program may be required to take a reduced course load their first year and receive a variety of support services. Those wishing to be considered under this program should contact the Admissions Office for further details.

## Transfer Students

Transfer students with more than 30 credits must apply for and be admitted to specific programs. Those with 30 or fewer credits may apply for uncommitted status. Admission is based on academic performance in college and space availability. A minimum grade point average of 2.0 out of 4.0 is necessary for acceptance, although some programs are very competitive and will require a higher grade point average. No student will be accepted who is on academic probation at another institution or who has been academically dismissed in the past year. Previously earned credit will be evaluated for all transfer students upon receipt of official transcripts, and all transfers will receive a copy of this evaluation. A maximum of 91 semester hours may be transferred from other accredited institutions with no more than 66 from two-year colleges.

Beginning fall 1996, students who enter with an associate in arts (A.A.) or associate in science (A.S.) degree are considered to have completed the 42-credit core of the general education requirements of the B.A. and B.S. degrees. Final transcripts that indicate completion of the degree must be received before this waiver will appear on the audit/advisement record.

Transfer students should understand that only credit is transferable. Credit is granted only from institutions listed on the application for admission. Grades, quality points, and cumulative averages do not transfer. Additional information on transfer credit policies is available on page 49 in the Academic Policies section.

Students dissatisfied with this evaluation, whether under the guaranteed transfer policy or as a regular transfer student, may formally request a review from the Admissions Office or may submit a petition to the Academic Appeals Committee.

## Special Credit

In addition to credit awarded for traditional college work, up to 45 credits may be accepted from the following sources:

Source	Maximum credits
1. Published examinations .....	30
No more than 18 may be in general examinations	
2. Course challenge .....	30
3. Military service courses .....	15
4. Noncollegiate institutions .....	15
5. Proprietary institutions .....	15

Further details may be found in the section on Academic Policies (pages 45-47).

## Guaranteed Transfer Policy

New York State residents who are graduates of a State University of New York two-year college, including community colleges operated within the program of the university, and who possess an A.A. or A.S. degree, shall be guaranteed an opportunity to continue their education on a full-time basis at a senior campus of SUNY. To assure admission, however, students must file their applications by March 1 for the fall semester and by

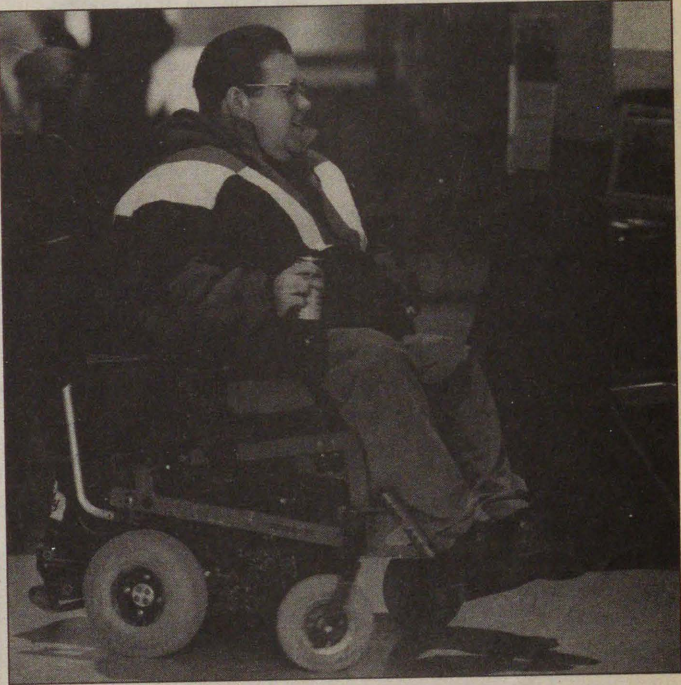
October 15 for the spring semester. Buffalo State, a senior campus, subscribes to and participates in this agreement. Students admitted to the college from parallel programs can ordinarily expect to complete their degree requirements in four semesters of full-time study. Those entering programs involving special certification and licensing may need more time to complete these additional requirements.

## Joint Admission Program

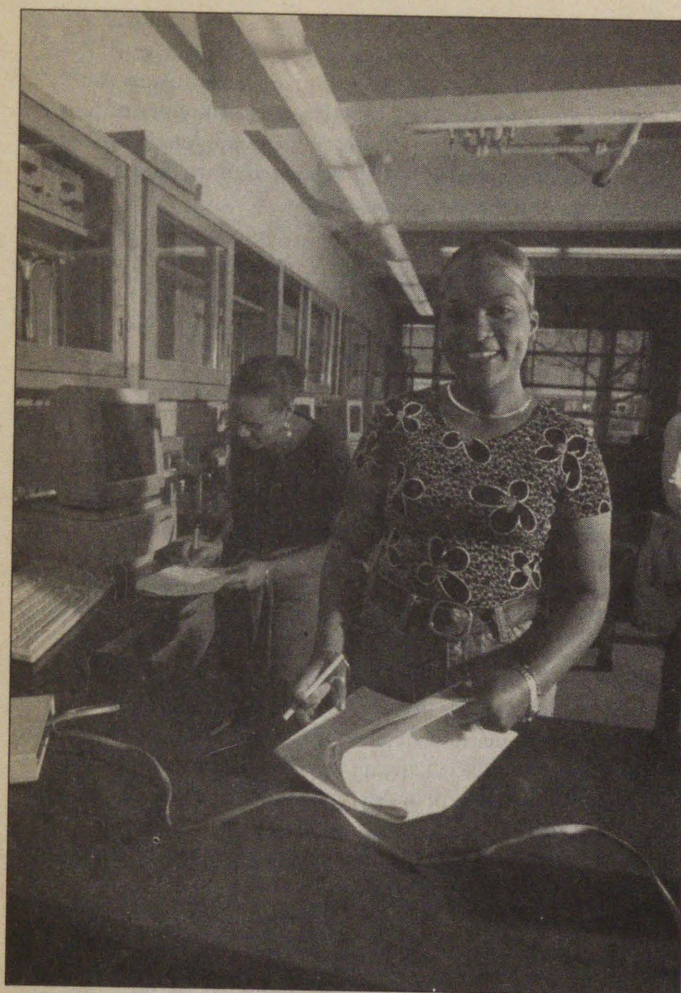
Erie Community College  
Genesee Community College  
Monroe Community College  
Niagara County Community College

First-time freshmen who expect to receive an associate's degree from Erie Community College, Genesee Community College, Monroe Community College, or Niagara County Community College and are in a parallel program may file a single application for simultaneous admission to one of the two-year colleges and to Buffalo State. These students follow a definitive curriculum at the two-year college and receive counseling and advisement that will facilitate enrollment into a parallel program at Buffalo State upon completion of the associate's degree. They will matriculate at Buffalo State as juniors, and can expect to earn the baccalaureate degree for most programs in four additional semesters of full-time study (or the equivalent for part-time students). Students planning to pursue programs requiring certification, e.g., education, may require more than four semesters of full-time study to finish.

The admissions requirements and general education requirements for the bachelor's degree at Buffalo State will be those in effect at the time of the student's application for joint admissions at the two-year college. Major requirements for the bachelor's degree will be those in effect at the time the student formally enrolls at Buffalo State. Further details are available from the transfer admissions counselor at Buffalo State or the admissions office at the participating two-year college.







### Educational Opportunity Program (EOP)

This program is designed to provide special admission and counseling to individuals who are academically disadvantaged and in need of financial assistance. Applicants must be New York State residents with a high school diploma or its equivalent. They must not qualify for admission to the college under general admission standards and must have a family income equal to or less than published state standards. For further information and application forms, contact the Admissions Office, Cleveland Hall 210, (716) 878-4415.

### International Students

The college welcomes international students each year. Applicants should possess the equivalent of 12 years of elementary and secondary education, and must provide evidence of proficiency in the English language and the ability to meet the financial costs of attending college. A special booklet, "Information for New Students From Abroad," is available from the Admissions Office and the International Student Affairs Office.

For spring admission, all applications and supporting materials should be submitted no later than October 1 if applicants are in their home country, or November 15 if they are in the United States. For fall admission, all applications and supporting materials should be submitted no later than June 1 if applicants are in their home country, or July 15 if they are in the United States.

An I-20 form or an IAP-66 form enabling them to obtain, respectively, an F-1 (student) visa or a J-1 visa from the U.S. Embassy or Consulate in their home country is sent with the acceptance packet.

All international students must enroll in a group health insurance plan available through the college, unless they carry a health insurance policy that provides comparable coverage and the plan is approved by the medical director of the Weigel Health Center. The annual premium for the SUNY plan was \$632 for the 1998-99 academic year. The premium for future years is subject to change. The insurance premium must be paid to the Student Accounts Office, Cleveland Hall 305.

International students must take their receipts to the International Student Health Insurance Office in Weigel Health Center 201 to prove they have paid for the College Student Health Insurance and to have their enrollment in the plan processed. Failure to do so will automatically cancel registration.

About \$15,000 a year will be necessary to cover all expenses. By the time they arrive on campus, international students should have made arrangements for the funds to cover their college career.

International students who reside on campus may live in the international dormitory, which remains open during the holidays, or in any other dormitory, provided they move out of the dormitory during holidays. (See Student Services section for additional information regarding international students.)

This college is authorized under federal law to enroll non-immigrant alien students.

### Early Admission

Especially well-qualified high school juniors may apply to Buffalo State for full- or part-time study during their senior year in high school under the Early Admission Program. The college offers several options:

- Students may enroll on a part-time basis while attending high school.
- Students may enroll as full-time freshmen during the last semester of their high school senior year.
- Students may enroll as freshmen for the entire academic year instead of completing their senior year of high school.

The college arranges with the high school to have remaining high school diploma requirements fulfilled by taking appropriate freshman courses. Therefore, high school diploma requirements are met while the student earns college credits. Early admission students are not eligible for federal financial aid.

For further details, contact the Admissions Office, Cleveland Hall 206, (716) 878-4017.

### Special Departmental Requirements

Certain programs have special entrance requirements. Freshman and transfer Fine Arts Department applicants must present an art portfolio to the appropriate department. Interviews will be arranged by the department. A number of programs have other entrance requirements, such as a minimum grade point average or successful completion of specific courses. Students should consult the Admissions Office for further information.

### Admission Procedures

The college uses the state's common application form, which may be obtained from high school guidance offices, community college transfer offices, or the Buffalo State Admissions Office. It should be completed and submitted to the Application Processing Center in Albany, New York.

Decisions are made on a rolling basis beginning in mid-September for spring applicants and mid-December for fall applicants. Processing continues until new student enrollment goals have been met. Applicants are encouraged to submit their application and supporting materials early in order to receive timely consideration.

All matriculating students born on or after January 1, 1957, must submit proof of immunity to measles, mumps, and rubella. Students who cannot show proper proof of immunity will not be permitted to register. A completed health report and physician's certificate also must be on file at the college's Weigel Health Center.

With the exception of Educational Opportunity Program participants, all accepted students must submit a \$125 advance tuition deposit. This deposit is applied to the fall or spring semester tuition bill (whichever is appropriate).

Refunds of the tuition deposit are made only under the following circumstances:

1. A refund request must be made within 30 days after the date of acceptance, or by May 1 for summer/fall terms or November 1 for spring term, whichever is later, but prior to the first day of registration.
2. If the college withdraws a conditional acceptance.
3. If the student withdraws to enter military service.
4. If the college comptroller deems that conditions beyond the student's control warrant a refund, and appropriate documentation is provided.

Requests for tuition deposit refunds must be received in writing and include the appropriate documentation.

### Nondegree Status

This status enables individuals to take college courses for credit without working toward a degree. Students may enroll in up to 11 credits of coursework each semester on a space-available basis. Credits earned may be applicable to a degree at the college if the student applies and is accepted as a formally matriculated student. The only entrance requirement is a high school diploma or its equivalent. Students who have been academically dismissed from any institution must wait one full year from the time of dismissal before enrolling under nondegree status. To register, complete a one-page application, available from the Admissions Office. Nondegree students are not eligible for financial aid.

Adult learners without college experience who do not qualify for matriculated study may also enroll as part-time, nondegree students. After completing 15 credits of college-level coursework with a 2.0 grade point average or higher, they are eligible for degree study. The credits that they have earned will be applicable to their degree.

Students are responsible for completing the degree requirements in effect at the time they reach matriculated status.

### Readmission

Students who attended Buffalo State previously in a matriculated status and wish to re-enroll must apply for a specific program and have their applications reviewed by the appropriate department. If other courses have been taken at other institutions since leaving the college, official transcripts must be submitted.

Undergraduate and graduate students who discontinue attendance without taking a leave of absence can register for classes, without applying for readmission, for up to four fall and spring semesters beyond the semester in which they were last registered; baccalaureate graduates and undergraduate students with less than a 2.0 cumulative average retain registration eligibility for only one fall or spring semester beyond the semester in which they were last registered.

Students who have returned to Buffalo State after an absence of two or more years must complete current degree requirements. All others have the option of graduating according to the degree requirements at the time they left or the current requirements.

A student who has been academically dismissed must wait one full year from the time of dismissal before being considered for readmission. If readmitted, all coursework taken previously will be considered in computing the cumulative average. Students who have not enrolled for any Buffalo State courses for a period of five years and would not be eligible for admission due to a grade point average below 2.0 may be eligible for academic clemency. This policy allows previous coursework of up to two consecutive semesters of full-time study (or 30 consecutive credits if earned on a part-time basis) to be removed from the grade point average calculation. Credits so noted will no longer apply toward graduation requirements but will remain on the transcript. Students opting for academic clemency must meet with the director of academic standards and sign an agreement which details the commitment and ramifications of this procedure.

Readmission forms are available in the Admissions Office, Cleveland Hall 206.

### Summer Session

The college offers one of the largest and most comprehensive summer programs in the state university system, with more than 400 graduate and undergraduate courses available in more than 40 fields of study. Departments often choose to offer creative or unique courses in the summer.

Summer session consists of three four-week sessions beginning in late May. The last session begins in mid-July. A summer session bulletin is available each March in the Registrar's Office, Cleveland Hall 204.

Students from other colleges are required to complete a non-degree application for admission in advance of registration.

### Evening Study

Buffalo State offers 15 undergraduate evening degree programs and six minors for almost 1,000 evening students. The college recognizes that evening students tend to hold daytime jobs and may be somewhat older than the traditional college age. Every effort is made to provide the programs and services necessary for students contemplating career changes. Adult



students will find that Buffalo State maintains no separate evening division. Instead, all students—whether part time or full time, day or evening—are admitted through the Admissions Office. As a result, the provision of basic college services is direct and efficient. Students enjoy the flexibility of being able to switch between day and evening schedules simply on the basis of the courses for which they register. The general programs, policies, procedures, and course descriptions throughout this catalog apply to day and evening students alike.

Of the college's 71 undergraduate academic majors, the 15 available to evening-only students are: the arts, broadcasting, business studies, computer information systems, criminal justice, design, electrical engineering technology (electronics, mechanical, or power and machines), general studies, humanities, industrial technology, social work, urban-regional analysis and planning, and vocational technical education. Furthermore, evening-available minors are: computer information systems, creative studies, criminal justice, management economics, quality, and safety studies.

The courses for each of these programs are sequenced over several semesters so that evening students are able to fit them into their schedules. Occasionally courses are offered on weekends.



#### Evening Student Assistance

Evening students are encouraged to visit the Evening Student Assistance Center for information about programs, alternative means of earning credit, assistance with policies and procedures, and other matters. The Evening Student Assistance Center, part of the college's Lifelong Learning Center, is open from 4:30 to 9 p.m., Monday through Thursday, when classes are in session during the fall and spring semester. For further information, call or visit the Evening Student Assistance Center, Twin Rise 100, (716) 878-5906.

#### Student Retention

The college routinely collects and maintains data regarding student persistence and graduation rates. Buffalo State graduation rates compare most favorably with national benchmarks, averages, and graduation rates for other similar public metropolitan institutions. Further information is available upon request.

## FINANCES

**Students are required to pay tuition and fees upon receipt of invoice either in cash, with credit card, or through a deferred payment plan. Deductions will be made under various financial aid programs if the student attaches a copy of the award notice with payment.**

**Room and board charges must be paid prior to arrival on campus. These charges are usually included in the bill covering tuition and fees.**

**Further information concerning payment is available in the Student Accounts Office, Cleveland Hall 304, (716) 878-4121.**

#### Explanation of Terms

**Full time**—A student registering for 12 or more credits per semester is considered a full-time student.

**Part time**—A student taking one to 11 credits per semester is considered a part-time student.

**Semester**—The academic year of the college consists of a fall semester and a spring semester. Yearly expenses are twice the semester rate.

**Resident (for tuition purposes)**—As established by the State University Board of Trustees, an individual university registrant will be considered a New York State resident, and shall be charged in-state tuition rates when that individual is determined to have a permanent and principal home in New York State for 12 months prior to registration. Persons who do not meet this requirement will be presumed to be out-of-state residents and charged out-of-state tuition rates unless satisfactory proof is presented to show that domicile in New York State has, in fact, been established.

#### Student Expenses (1999)

*Expenses are subject to change*

##### Tuition

Tuition for full-time undergraduate Buffalo State College students is \$1,700 per semester for New York State residents and \$4,150 per semester for out-of-state students. Tuition for part-time undergraduates is \$137 per credit hour for New York residents and \$346 per credit hour for out-of-state students.

#### Room and Board

Residence hall room rates are \$1,595 per semester for a double occupancy room. Room rental does not include telephone service; students arrange for this service with the telephone company. Some single rooms are available, but the college cannot guarantee these accommodations. Meal plan rates vary, starting at \$990 per semester.

#### College Fee

A college fee of \$12.50 per semester for full-time students and \$.85 per credit hour for part-time students is collected by all units of the state university system to finance various SUNY construction projects.

#### Activity Fee

All full-time students are required to pay a \$57 per semester activity fee; part-time students pay \$4.75 per credit hour per semester. These funds support the activities of more than 80 student groups on campus.

#### Health Fee\*

A mandatory college health fee of \$65 per semester for full-time students and \$5.45 per credit hour for part-time students is collected by all units of the state university system. This fee provides basic medical assistance to students on campus through the Health Center.

#### Athletic Fee\*

All full-time students are required to pay a \$60 per semester athletic fee; part-time students pay \$5 per credit hour per semester. This fee supports intercollegiate athletics.

#### Technology Fee\*

All full-time students are required to pay a \$60 per semester technology fee; part-time students pay \$5 per credit hour per semester. This fee provides enhancements to campus technology.



### Parking Fee

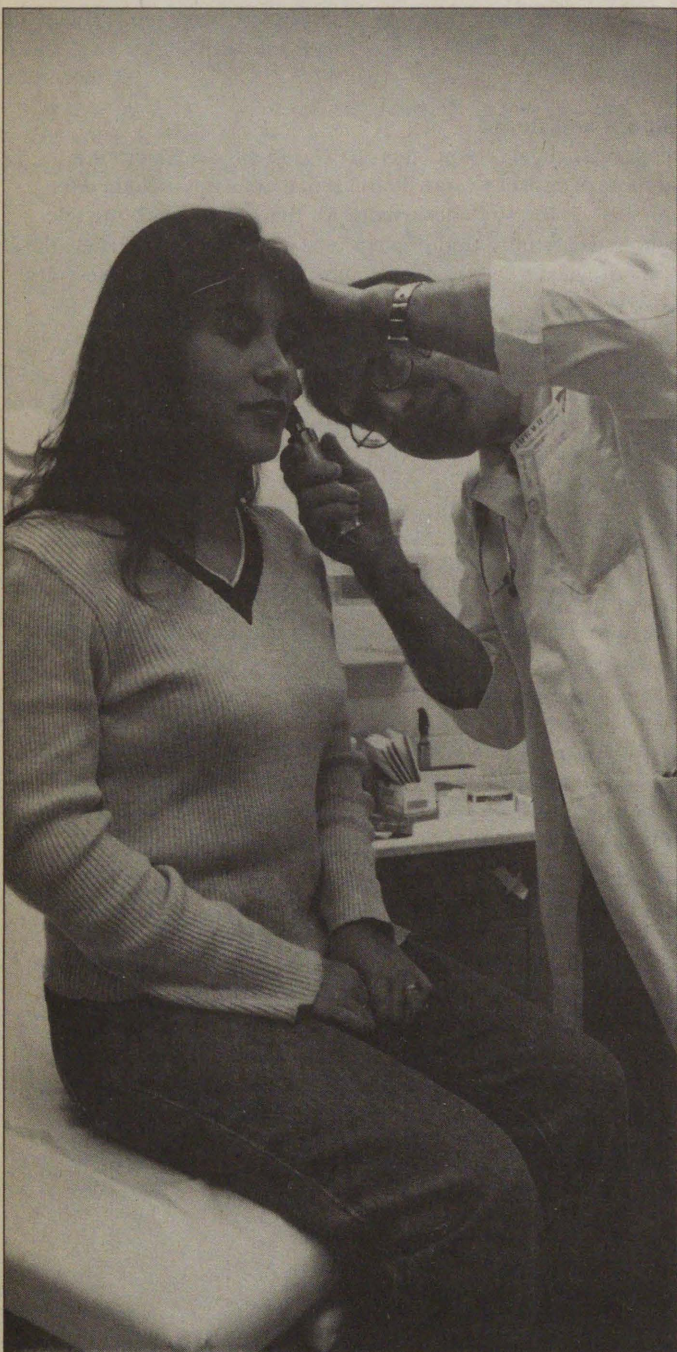
Students who wish to park on campus pay \$70 per academic year and \$10 for a summer-only permit.

### Miscellaneous Expenses

Miscellaneous expenses will vary depending on the academic program, personal spending habits, and the distance between home and campus. The college estimates books and supplies will cost approximately \$800 per year, depending upon declared major; personal expenses, \$850 per year; and transportation, \$750 per year.

### Health Insurance

An optional health insurance plan is available. It was \$497 per year for 1999; the rate is subject to change each year.



### International Student Health Insurance

All international students must enroll in a group health insurance plan available through the college. If they carry a health insurance policy that provides coverage comparable to the SUNY-mandated health insurance, it may be accepted as an alternative, if approved by the medical director of the Weigel Health Center. The premium was \$478 per year for August 1998 through August 1999. There are rates for coverage during any semester. The premium is subject to change each year. All American students studying abroad must also carry this insurance.

### Summer Session Expenses 1999

Tuition and the college fee are charged at the credit-hour rate for all courses taken during summer sessions. The summer rate for a double residence hall room is \$95 a week, and \$190 a week for a single room. The summer activity fee is \$5.

### An Estimated Budget

Estimated college costs can be found in the following table for the 1999-2000 academic year. Costs may vary according to a student's class status, place of residence, major, and individual needs. All tuition rates, fees, and fines are subject to change without notice as directed by the State University Board of Trustees.

#### Estimated Budget for 1999-2000 Fall and Spring Semesters (New York State Resident)

	Commuter	Resident
<b>Fixed Costs (per semester)</b>		
Tuition .....	\$1,700.00	\$1,700.00
Fees* .....	254.50	254.50
<b>Total Fixed Costs .....</b>	<b>\$1,954.50</b>	<b>\$1,954.50</b>
<b>Variable Costs (per semester)</b>		
Books and supplies .....	400.00	400.00
Maintenance at home .....	925.00	—
Room .....	—	1,595.00
Board .....	—	990.00
Miscellaneous expenses .....	425.00	425.00
Transportation .....	375.00	375.00
<b>Total Variable Costs .....</b>	<b>\$2,125.00</b>	<b>\$3,785.00</b>
<b>Estimated Annual Costs</b>		
(two semesters) .....	\$8,159.00	\$11,479.00

\*Increase is expected to be approximately \$47 additional per semester in fall 2000.

### Time Payment Plan

The college has established a time payment plan to assist students and their families in paying the cost of tuition, fees, room, and board. Applications may be obtained in the Student Accounts Office, Cleveland Hall 304, (716) 878-4121 or the Financial Aid Office, Cleveland Hall 309, (716) 878-4901.

### Refund Policies

#### Tuition

Tuition refunds will be processed only if the student officially withdraws through the Registrar's Office. Registered students are responsible for payment of tuition and fees according to the following schedule:

Date of Course Withdrawal	Tuition Liability
<b>Spring and Fall Semesters:</b>	
First week of class .....	0
Second week .....	30%
Third week .....	50%
Fourth week .....	70%
After fourth week .....	100%
The first week of class ends on Saturday of the week in which classes are scheduled.	

#### Summer Sessions:

First two days of session I or II .....	0
Third day through end of second week of session I or II .....	70%
Third week of session I or II .....	100%

#### Room Rentals

During the fall and spring semesters, a refund can be made only if students withdraw due to circumstances beyond their control. Any questions covering refunds are addressed in the residence hall license.

#### Board Charges

Meal rates are set by the Faculty-Student Association Board of Directors. The Food Service Office will determine the amount of refund due in cases of meal plan withdrawal.

#### Activity Fee

This fee is refunded only when registration is canceled within the first two weeks of class.

#### College Fee

#### Health Fee

#### Athletic Fee

These fees are refunded only when registration is canceled within the first week of class.

#### Technology Fee

This fee is refunded only when registration is canceled within the first week of class or the student's computer user account and other technological resources on campus have not been used.

#### Parking Fee

Refundable within the first two weeks of class upon surrender of parking permit.

All refunds are mailed to the student's permanent address.

### Service Fees

The following fees are administered to comply with mandatory State University of New York policy:

#### Late Registration Fee

Anyone registering for the first time in the semester during the designated "late registration day" (the last allowable registration day) or later will be charged a mandatory \$30 late registration fee that cannot be waived or deferred. The only exceptions are registrations for graduate workshops, independent study, special projects, contracts, and any course requiring performance auditions. Registrations for independent study, special projects, and contracts turned in after the fourth week of classes that generate the only registration for a student will also be assessed the \$30 late fee.

#### Late Payment Fee

A late payment fee of \$30 will be assessed to each delinquency bill sent by the college. Late filing of financial aid will not waive this fee. All financial aid should be filed by April 1. This fee will also be charged if the final semester bill is not paid by the due date.

#### Late Drop/Add Fee

A \$15 late drop/add fee will be charged for each transaction after the second week of classes. Independent study, special projects, or contracts added after the fourth week of classes will also be charged this \$15 fee.

#### Academic Transcript Fee

There is a \$5 fee for each requested transcript.

#### Financial Aid Transcript

There is no charge for this service.

#### Returned Check Fee

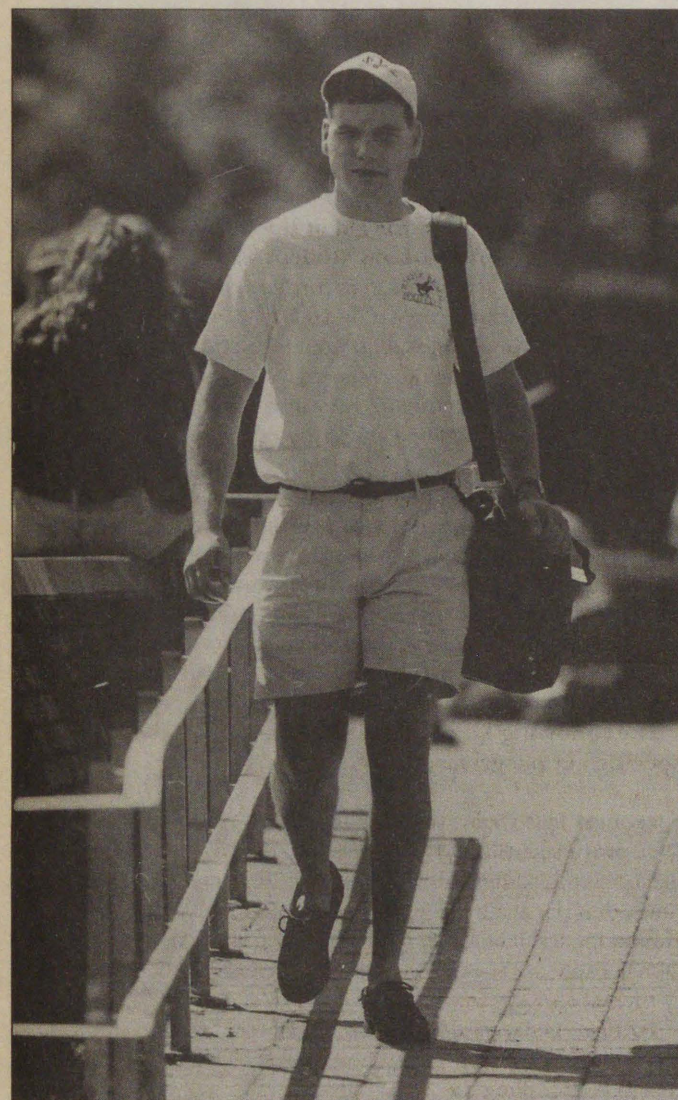
A fee of \$20 will be charged for every check returned by the bank or any declined credit card transaction. The fee is non-deferrable and cannot be waived. In addition, a late payment fee will be charged on any transaction covering a course and/or room registration. If payment is not received within 10 days from the date of notification, the account is referred to the New York State Attorney General's Office for collection and handling.

### New York State Debt Collection Mandate

The State University reserves the right to withhold academic records from any student who has not satisfied or made provision to satisfy all obligations incurred in the State University system. Unpaid accounts will, in due course, be turned over to an external collection agency. Collection costs will be added to the amount of indebtedness.



## FINANCIAL AID



### Student Financial Aid

The cost of a college education need not be an impossible burden. Although the primary responsibility for financing education rests with the student and his or her family, there are numerous financial aid programs—grants, loans, and work-study positions—that can help bridge the gap between college costs and family resources.

Buffalo State College's Financial Aid Office has been extremely successful in helping students find ways and means of financing their college educations. The office oversees the distribution of more than \$38 million in federal and state grants, loans, and jobs annually, and determines eligibility for the Federal Work-Study Program (FWS), Educational Opportunity Program (EOP), Federal Stafford Loan Program, Federal Perkins Loan, and Federal Supplemental Educational Opportunity Grants (SEOG).

A significant percentage of Buffalo State students are eligible for some type of aid. During the 1997-98 academic year, it is estimated that at least 3,200 students received a Federal Pell Grant. More than 5,000 students received federal loans in excess of \$23 million. Also, federal work-study opportunities benefited about 400 students, providing an additional \$1,100 per semester.

The Financial Aid Office, with one of the most experienced staffs in the state, works year round to keep students and their families updated on financial aid possibilities. Service is personalized; communication is frequent. The office is open during normal business hours Monday through Friday, and students are invited to make appointments to meet with the staff. In addition, upon filing applications, students are notified by mail about financial aid programs for which they may be eligible and the requirements which must be met.

The office provides information and forms for a variety of programs and also awards available funds on the basis of federal and state guidelines to students who have completed the appropriate financial aid applications. Three types of aid are available: grants (financial aid that does not have to be repaid); loans (money that must be repaid at low interest); and employment (opportunities for students to work to earn part of the needed funds).

The office is also the clearinghouse for many scholarships offered by special groups on and off campus. Notices of these scholarships are usually announced in the student newspaper, *The Record*.

In addition, the office administers a short-term loan program for students needing small amounts of money.

### Financial Aid Based on Need

Financial need is defined as the difference between the amount of money a family may be expected to contribute and the total cost of education. (Total college costs include tuition, fees, room, and board paid directly to the college in addition to related expenses, such as books and supplies, transportation, and personal expenses.)

The Financial Aid Office uses the financial aid application to assess a family's ability to pay for college. Information on this form includes the family's annual income, debts and assets, number of dependents, other family members in college, and unusual circumstances. The office analyzes this information, and, with the help of an annually revised formula prescribed by the federal government, makes a determination of how much a family can reasonably be expected to contribute. The student is also expected to contribute a portion from savings, earnings, or from any special benefits he or she may receive.

All of the information provided on the financial aid application and on any attachments is confidential and is used only by the Financial Aid Office to determine eligibility. It is not shared with the Admissions Office, academic departments, or administrators.

If family circumstances change at any time, the office should be notified at once. A death in the family, loss of employment, and change of commuter to resident status are examples of changes that could affect the amount of aid offered.

### Who is Eligible?

Only **matriculated** students—students who have been accepted at the college and are pursuing specific degree programs—are eligible to receive most financial aid. (Non-matriculated students are not recognized as degree candidates, and include continuing education students, some visiting students, and special-status students who have been allowed to take courses but have not been formally accepted by the college.)

To continue receiving campus-based aid, **each year** all recipients must file the Free Application for Federal Student Aid (FAFSA) approved by the U.S. Department of Education. It is important to include the appropriate code (002842) and list our college as "Buffalo State College—SUNY." Applications should be filed by March 15 for the following academic year to receive full consideration. Applications received after this date may be considered for available campus-based funds. Other programs may require the filing of separate applications each year as well.

Some financial aid programs are based on full-time enrollment (12 credits per semester or more). If a student's enrollment is for fewer credits, the award may be reduced or canceled.

Students also must be citizens, nationals, or permanent residents of the United States or eligible noncitizens. Noncitizens may be eligible if they provide documentation from the Immigration and Naturalization Service (INS) that designates them as lawfully present in the U.S. for other than a temporary

purpose with the intention of becoming a citizen or permanent resident. For more information, contact the Financial Aid Office.

To continue to receive aid, students must make satisfactory progress toward completion of a degree in accordance with the Academic Policies chapter of this catalog and any addendum.

For an undergraduate program, the time frame for financial aid eligibility may NOT exceed 150 percent of the published length of the program measured in academic years, academic terms, or credit hours attempted. Also, students must not be in default of any loan or owe a refund for any Title IV grant to any institution.

All inquiries concerning financial aid or related matters should be addressed to:

Financial Aid Office  
Cleveland Hall 309  
Buffalo State College—SUNY  
1300 Elmwood Avenue  
Buffalo, N.Y. 14222-1095  
(716) 878-4901

### How to Apply for Financial Aid

Students are encouraged to apply early for financial aid. Application forms may be obtained in the Financial Aid Office. The requirements below pertain to 1998-99. All procedures and eligibility requirements may change, subject to governmental action.

**All students applying for aid at the college must file the Free Application for Federal Student Aid (FAFSA) each year.** This form is the application for the Federal Pell Grant, the Federal Stafford Loan program, and all the campus-based aid programs. If a New York State school is listed on the FAFSA form, the state will send the student an Express TAP Application for the New York State Tuition Assistance Program (TAP). The FAFSA should be completed and mailed to the appropriate processing agency contractor. The instructions will clearly list the address of the processor. Review the instructions carefully and list the college code (002842) for Buffalo State College—SUNY. The filing deadline for the summer, fall, and spring semesters is the previous March 15 for continuing students.

Applications will be accepted after the deadline on a first-come, first-served basis, with awards subject to availability of funds.

**The following forms must be submitted annually for specific aid programs:**

**Federal Pell Grant** — Apply using the Free Application for Federal Student Aid (FAFSA). The completed form should be mailed to the address indicated on the form. The deadline date is June 30 of the academic year (e.g. June 30, 2000, for 1999-2000). Submit the Student Aid Report (SAR) results to the Financial Aid Office. There are specific eligibility deadlines for the submission of the FAFSA/SAR data.

**Tuition Assistance Program (TAP)** — For New York State residents ONLY. Apply using the Express TAP Application received after filing the FAFSA. Review this application for accuracy, sign and return it to the New York State Higher Education Services Corporation (NYSHESC). The anticipated TAP deadline is May 1 of the academic year (e.g., May 1, 2000 for 1999-2000).





**Federal Stafford Loan Program** — The Free Application for Federal Student Aid (FAFSA) should be completed and sent to the Financial Aid Office by the appropriate deadline. The Financial Aid Office will compute the student's eligibility and send him/her a preprinted and approved application with instructions to forward the application to the lender.

**Other Loans: Federal Parent Loans for Undergraduate Students (PLUS)** — Application forms, available from participating lending institutions, should be completed and submitted to the Financial Aid Office for processing. Pre-approval forms from some lending institutions are available from the Financial Aid Office.

### Who is Self-Supporting?

The following regulations must be met and documented for students to be considered self-supporting or independent for federal financial aid consideration. For 1999-2000, a student is considered automatically independent if he or she:

1. was born before January 1, 1975;
2. is a veteran of the U.S. Armed Forces (includes students who were activated to serve in Operation Desert Storm);
3. is a ward of the court or an orphan;
4. has a legal dependent other than a spouse;
5. is married or a graduate or professional student;
6. can demonstrate and document unusual circumstances that the Financial Aid Office deems sufficient to grant independent status. Contact the Financial Aid Office for details and appropriate procedures.

The above criteria are subject to change.

### Award Notification

Accepted freshmen and transfer students who have filed financial aid applications will receive notification for the following federal and state programs: Federal Supplemental Educational Opportunity Grant, Federal Perkins Loan, Federal Work-Study Program, and the Educational Opportunity Program. Continuing students will start to receive notification in April and will continue as the application data is received in the office. The Financial Aid Office determines eligibility for these programs.

### Financial Aid Disbursement

Financial aid monies in excess of the amount owed the institution are disbursed on the following schedule:

**Federal Stafford Loan**—Funds will begin to be disbursed approximately two weeks after the drop/add period. There is a required delay of four weeks for first-year, first-time borrowers.

**Financial Aid (Federal Perkins Loan, Federal Pell Grant, Federal SEOG, etc.)**—Funds will begin to be disbursed after the fourth week of classes each semester.

These monies are either directly deposited to the student's bank account or a check is mailed to the student. Students are encouraged to enroll in the direct deposit program. Enrollment forms are available in the Financial Aid Office, Cleveland Hall 309 or the Student Accounts Office, Cleveland Hall 304. With direct deposit, the Student Accounts Office will deposit monies directly into the student's account and will notify the student through e-mail when this has been done. Without direct deposit, a check will be mailed to the student's address on file that is closest to campus: dormitory, local, or permanent. It is the student's responsibility to keep all address information current and accurate in the Registrar's Office.

### Overawards

Students are urged to contact the Financial Aid Office promptly when they receive funds from any source not listed on their award letters or amounts that are different from what was estimated.

Overawards occur on occasion because of the length of time it takes to match funds from various sources against student records. **Students are responsible for repaying any money that is overawarded.**

### Refund of Overpayments

If a student who has received federal financial aid withdraws, takes a leave of absence, or drops out during the payment period (on or after the first day of class of the payment period), a portion of the financial aid award(s) may need to be refunded to the Title IV programs and/or the student may need to repay a portion of the award funds. The funds will be returned first to the loan programs and then to the grant programs. Further information is available in the Financial Aid Office.

### Federal Financial Aid Programs

Before any federal Title IV funds (FWS, Perkins, SEOG, and Stafford) may be disbursed, the following statements and procedures must be followed.

**Information (Application) Verification**—All students receiving federal Title IV funds are subject to U.S. Department of Education verification procedures. Selected students and their parents may be asked to provide supporting documentation (i.e. tax returns) and other information that verifies the accuracy of the data reported on the student aid application(s).

**Financial Aid Transcript**—Midyear incoming transfer students who wish to receive aid at Buffalo State are required to submit financial aid transcripts from all prior institutions or Part I of the Student Aid Report (SAR) even if they did not receive financial aid. Forms are available in the Financial Aid Office.

**Default/Refund Statement**—On the FAFSA, students must sign a certification statement that they are neither in default on any student loan (Federal Perkins Loan, Income Contingent Loan (ICL), Federal Stafford Loan, Federal Parent Loan for Undergraduate Students (PLUS) or Federal Consolidation Loan) nor do they owe a refund on any federal Title IV grant (Pell and SEOG).

### Federal Pell Grant

The Federal Pell Grant is an entitlement program for matriculated undergraduates enrolled full- or part-time in a degree program. Eligibility and the amount of the award are based on need. Payment schedules are determined by federal legislation. Pell Grant payments may be made for the period of time required to complete the first bachelor's degree, and may NOT be made for graduate coursework.

To apply for 1999-2000, the FAFSA application must be filed by June 30, 2000. Applications are available in the Financial Aid Office. However, to receive a Federal Pell Grant award, the college must receive the student's final, valid Student Aid Report (SAR) by the **last day of the student's enrollment or June 30, whichever is earlier.** This deadline is extended for students whose applications are selected for verification: the valid SAR must be received at the college within 60 days after the **last day of the student's enrollment**, or by the deadline date set by the U.S. Department of Education, whichever is earlier.

About six to eight weeks after filing, a calculated Student Aid Report will be sent to the applicant, who must review it for accuracy and report all errors to the Financial Aid Office. This office will advise the student on the best course for corrective action. When accurate, the Financial Aid Office will report to the student the calculated amount of the grant.

For selected applicants, the U.S. Department of Education requires additional documents to be submitted for verification to the Financial Aid Office. This procedure must be completed before final eligibility can be determined and the appropriate payment made.

If a student's family experiences a dramatic change in income from one year to the next, the student may be eligible to apply for a Federal Pell Grant based on estimated income. Further details are available in the Financial Aid Office.

### Federal Supplemental Educational Opportunity Grant (SEOG)

For undergraduates who can demonstrate financial need, this grant program provides awards of up to \$300 per semester. SEOG awards may be received for the period of time required to complete the first bachelor's degree. Preference is given to full-time students who will also receive Federal Pell Grants in that year.

Application is made with the financial aid application (FAFSA), available in the college's Financial Aid Office. The office, upon receipt of the data from the federal processor, is responsible for determining the amount and the recipients of these grants. This application also is used for all federal financial aid programs.

### Federal Work-Study Program (FWSP)

This work program for students demonstrating financial need offers positions both on campus and at approved off-campus locations. Where possible, placements are made according to the student's educational/vocational goals. Salaries are paid biweekly for actual hours worked up to an average of 12 hours per week. Students earn an average of about \$1,100 per semester. Preference is given to full-time students.

Application is made through the college's Financial Aid Office using the current financial aid application.

### Federal Perkins Loan

Undergraduate students may borrow up to \$3,000 for each year of undergraduate study, or a total of \$15,000 for a bachelor's degree program. Preference is given to full-time students. Loans may be limited due to funds available.

After a "grace period," you must begin repaying this loan. The grace period begins once you leave Buffalo State (withdraw or graduate), or once you enroll for fewer than six credits. A nine-month grace period applies to all new borrowers, and to all students who received their first Perkins Loan after July 1, 1993, as long as they are enrolled for six or more credits. You may be allowed up to 10 years to repay the loan. The schedule of repayment will depend on the size of the loan but the minimum amount is expected to be \$40 per month, which includes five percent interest on the unpaid balance.

Repayment of the entire loan may be canceled for full-time teaching in a school designated by the U.S. Department of Education as being low income, for teaching children with disabilities, or for full-time staff members in a federal Head Start program. Principal and interest of this loan may also be canceled for full-time employment in certain law enforcement and corrections positions. Please contact the Financial Aid Office for details.

Application is made through the Financial Aid Office using the current financial aid application. Federal regulations also require a loan exit interview prior to a student's leaving the college. This interview, conducted by the Financial Aid Office, covers repayment obligations, deferment options, and cancellation possibilities.



## Federal Stafford Loan Program

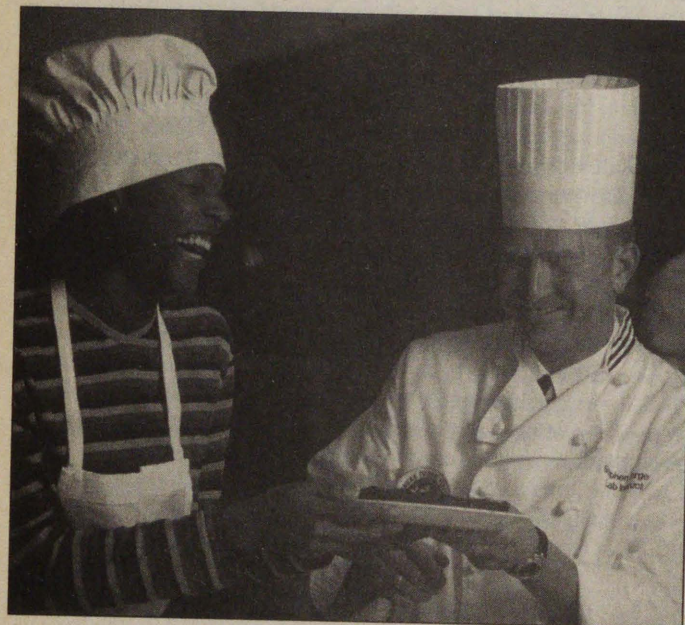
The New York State Higher Education Services Corporation (NYSHESC) is the guaranty agency in New York State for the Federal Stafford Loan program. Students enrolled at least half-time at an approved college and who are U.S. citizens or permanent residents are eligible to apply for this loan. The program enables students to borrow directly from a bank, credit union, savings and loan association, or other participating lender. Depending on total college costs, other aid, full/part-time status, and the amount of the family contribution, a student may borrow varying amounts from both the Federal *subsidized* and/or the *unsubsidized* Stafford loan.

Eligibility for the **Federal Subsidized Stafford Loan** is restricted to a need-based formula of college costs minus other aid and family contribution as determined by the federal government based on the information reported on the Free Application for Federal Student Aid (FAFSA). Eligibility for the **Federal Unsubsidized Stafford Loan** is restricted to college costs minus other aid.

A dependent student in his/her first year may borrow up to \$2,625 from both the subsidized and unsubsidized Stafford loans. During the second year, the student may borrow up to \$3,500. A student who has achieved third-year status may borrow up to \$5,500 per year. A total of up to \$23,000 may be borrowed for dependent undergraduate study.

Independent students may borrow additional funds each year from the Federal Unsubsidized Stafford loan. If you are a first-year student enrolled in a full academic year course of study, you may borrow \$6,625 (at least \$4,000 of which must be from the unsubsidized loan). If you have completed two years of study and the remainder of your program is a full academic year, you may borrow \$10,500 (at least \$5,000 of which must be unsubsidized) or the amount of your college budget, whichever is less. Independent undergraduates may borrow a total of \$46,000. Their total for both undergraduate and graduate study is \$138,500.

Repayment of the subsidized loans begins six months after at least half-time enrollment has ended, and the student generally has from five to 10 years to repay. The minimum payment, barring unusual circumstances, will be \$50 plus interest. The



applicable interest rate will be a variable rate with a current cap of 8.25 percent. The federal government will pay the interest on the loan until repayment begins, and also during any other authorized period of deferment. A combined origination fee and insurance premium is payable at the time of disbursement and is deducted from the check.

Repayment of the unsubsidized loans requires that the student pay the interest during in-school and deferment periods. Interest accruing during those periods may be paid or capitalized as agreed to by the lender. A combined origination fee and insurance premium is payable at the time of disbursement and is deducted from the check.

Approximately six to eight weeks after returning the Free Application for Federal Student Aid (FAFSA), a preprinted Federal Stafford Loan application will be mailed to the student. The accompanying instructions direct the student to complete certain sections, sign the application, and mail it to the lending institution of his/her choice. The lending institution will forward the application to the New York State Higher Education Services Corporation (NYSHESC) or other guaranty agency for a final decision. The student and the lender are then notified of the loan decision. **Loan applications must be submitted while the student is enrolled. A loan application cannot be processed for an enrollment period that has been completed.**

In most cases, lending institutions will transfer funds electronically to the college. The college will notify the student when funds have arrived and how they have been distributed. Lending institutions that are not using electronic funds transfer will send checks to the college. The Student Accounts Office will notify the student when the checks have arrived. All loans are disbursed in two installments.

Due to the volume of applications and federal verification requirements, it is suggested that the application process be started as close to the March 15 deadline as possible or at least three months prior to the start of the semester. This will help eliminate the cash flow problems that many students experience early in each semester.

Students who wish to apply for summer Federal Stafford loans will need to submit an *institutional application* directly to the Financial Aid Office. The Financial Aid Office will then have a preprinted application prepared and mailed to the student. It is recommended that the institutional application be submitted during April.

## Federal Parent Loan for Undergraduate Students (PLUS)

This loan is available to parents of dependent undergraduate students. They may borrow up to the cost of education minus other aid each year per child.

A combined origination fee and insurance premium is collected at the time of check issue by the lender. Parents must begin repayment of principal and interest (variable) within 60 days after the loan is received. The minimum monthly payment is \$60 with repayment to be completed within five to ten years, depending on amounts borrowed.

Many of the rights and responsibilities of the Federal Stafford Loan apply to this program; however, some of them are different. Contact the lending institution for complete information, forms, and procedures.



## Veterans Administration

Eligible veterans and children or spouses of eligible deceased or service-connected veterans with disabilities may be able to receive aid for approved post-secondary study. Information and application forms are available at all Veterans Administration offices.

## Aid to Native Americans—Federal

The U.S. Bureau of Indian Affairs offers grants for college study to needy applicants: (1) who are enrolled members of an American Indian, Eskimo or Aleut tribe, band, or group recognized by the Bureau of Indian Affairs; (2) who are accepted or enrolled as an undergraduate in an approved college or university; (3) who are pursuing at least a two-year degree; and (4) who demonstrate financial need. Awards vary depending on need and available funds.

An application is necessary for each year of study and must be accompanied by an official needs analysis from the Financial Aid Office. First-time applicants also must submit tribal enrollment certification from the bureau, agency, or tribe that records enrollment for the tribe. Applications are available from:

U.S. Department of Interior  
Bureau of Indian Affairs  
Federal Building, Room 523  
Post Office Box 7366  
100 South Clinton St.  
Syracuse, New York 13261-7366

## New York State Financial Aid Programs

### Tuition Assistance Program (TAP)

Full-time students enrolled in a degree program at an approved New York State post-secondary institution are eligible to participate in this grant program. Awards are based on New York net taxable income and tuition charged. Undergraduates may receive at least \$50-\$350, depending on when the student will receive a TAP award, and dependency status. Currently the maximum award is 90 percent of full tuition at SUNY institutions. Payments may be made for up to four years unless the student is enrolled in an approved five-year program.

A recipient must be a U.S. citizen or permanent resident alien and a New York State resident. Award eligibility is based on the family's New York net taxable income from the tax year prior to the start of the academic year. The maximum taxable income limits that determine eligibility will vary depending on when the student will receive a TAP award as well as the dependency status. To be considered independent, a student must meet specific TAP requirements regarding age, residency, and financial status. Contact the Financial Aid Office for details.

To continue to be eligible for payment, students must maintain a 2.0 GPA and be making reasonable progress toward a degree as required by State Education Department regulations.

These requirements, plus application forms, may be obtained from the Financial Aid Office or from the New York State Higher Education Services Corporation, 99 Washington Avenue, Albany, N.Y. 12255. The Higher Education Services Corporation determines eligibility and mails an award certificate directly to the applicant indicating the amount of the grant. Application deadline is May 1, 2000 for 1999-2000, and May 1, 2001 for 2000-01.

### Educational Opportunity Program (EOP)

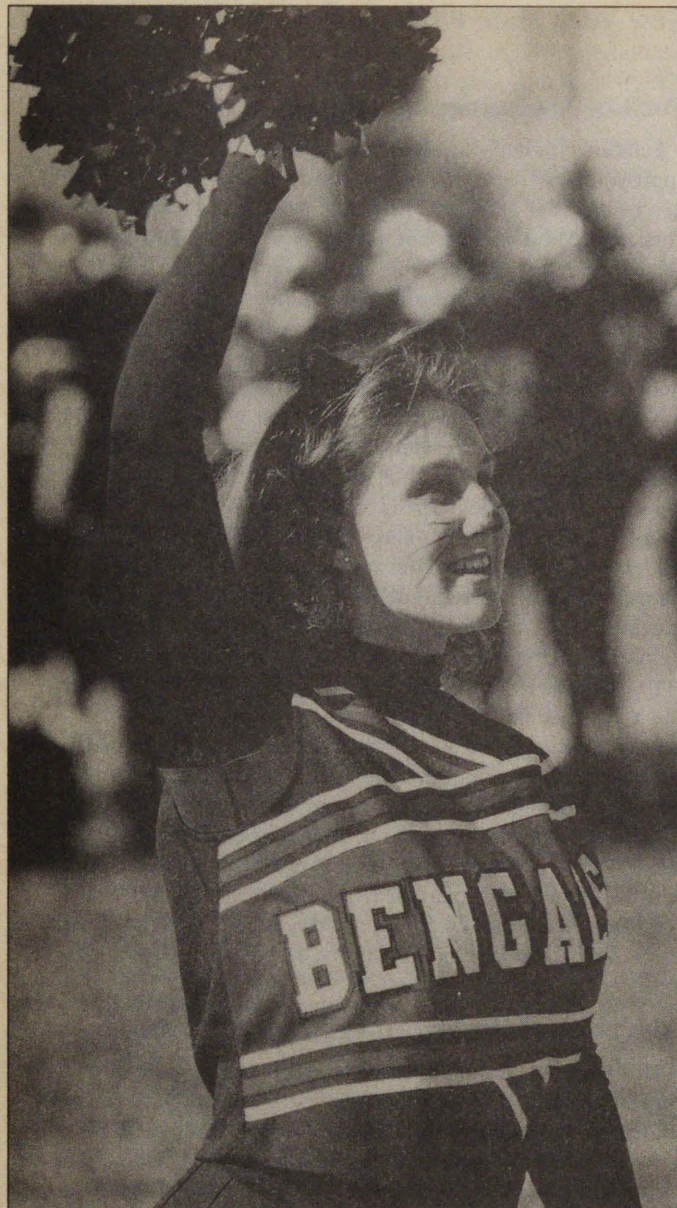
This is a grant program for undergraduates who are both academically and economically disadvantaged according to program guidelines and in need of financial assistance. This program requires New York State residency. Students must be accepted or enrolled, generally full time, in the Buffalo State EOP program. Awards are also based on available funds and can be received for up to 10 semesters. New students should apply through the Admissions Office, Cleveland Hall 210.

### Child of Veteran Award

The Child of Veteran Award is a financial aid program for children of veterans who are deceased, have a current disability of 40 percent or more, are a former prisoner of war, or missing in action as a result of service during specified conflicts. For information regarding the required dates of military service, please contact the Financial Aid Office.

Awards are \$450 per year for up to four years (or five years depending on the normal length of the undergraduate degree program) in a college or hospital nursing school in the state without consideration of income or tuition costs. The combined Child of Veteran Award and TAP award cannot exceed the amount of tuition charges. A special application supplement is available from the New York State Higher Education Services Corporation.





### New York State Aid for Part-time Study (APTS)

This New York State aid program provides tuition assistance for part-time undergraduate students enrolled in degree programs. Students who meet all other eligibility requirements may apply for this campus-based program. To be considered, a student must:

- be working toward an undergraduate degree as a part-time student enrolled for three to eleven credits per semester;
- retain good academic standing;
- be a resident of New York State;
- be either a U.S. citizen, permanent resident alien, or refugee;
- meet the income limits. "Income" means the net taxable income from the previous year's New York State income tax return. The income limit varies with the student's eligibility to be claimed as a tax dependent. If you were eligible to be claimed as a tax dependent by your parents, family income (student's and parents') cannot exceed \$50,550. If you were

not eligible to be claimed as a tax dependent by your parents, income (student's and/or spouse's) cannot exceed \$34,250. If you were not eligible to be claimed as a tax dependent by your parents, but were eligible to claim dependents of your own other than yourself and/or your spouse, income (student's and spouse's) cannot exceed \$50,550.

- not have exceeded the time limits set for receiving New York State grants (the equivalent of eight semesters of full-time study, or 10 for students in the Equal Opportunity Program or an approved five-year program). Awards are based upon a student's financial need and funds available at Buffalo State. (Awards cannot exceed educational costs minus the total of other grants awarded.)

Contact the Financial Aid Office for information and the application.

### Supplemental Tuition Assistance Program (STAP)

Undergraduate students who are educationally disadvantaged and require remedial courses may be eligible for up to one additional semester of tuition aid beyond their TAP eligibility. For further information, contact the Financial Aid Office.

### State Aid to Native Americans

This is an entitlement program with neither a qualifying examination nor a limit on the number of recipients. Students receive up to \$1,550 per year for up to four years of full-time study. To be eligible for a full-time award, a minimum of 12 credits must be taken each semester. Students registered for fewer credits will receive pro-rated awards based on credit hours.

To qualify, applicants must be a member of one of the Native American tribes located on reservations within New York State, have graduated from an approved high school or have earned a general-equivalency diploma, be enrolled in a program in an approved post-secondary institution leading to degree credit status and the general-equivalency diploma, or be enrolled in a program in an approved post-secondary institution in New York State. Continued support from this program requires that a student maintain a 2.0 GPA.

Applications and program details may be obtained from the Native American Education Unit, New York State Education Department, Room 543, Albany, N.Y. 12234.

Recipients must notify the Native American Education Unit in writing of any change in student status, program, or institutional enrollment.

### Office of Vocational and Educational Services for Individuals with Disabilities (VESID)

Students with disabilities pursuing higher education may be eligible for assistance through the State Office of Vocational and Educational Services for Individuals with Disabilities (VESID). Criteria and funding vary. Applications and eligibility requirements may be obtained at the Buffalo area VESID office. Further information is available in South Wing 310, Special Services for Students With Disabilities.

## Buffalo State College Employment Opportunities and Scholarships

### Job Location and Development Program

*Financial Aid Office, Cleveland Hall 308*

The Job Location and Development Program is a free referral service that provides Buffalo State College students with part-time and summer employment opportunities in the greater Buffalo area. The program provides alternatives for students to learn work-related skills while defraying educational costs. All currently registered students may make use of the service, regardless of eligibility for other student assistance programs.

### Scholarships

A limited number of scholarships are available to students showing outstanding leadership qualities, academic abilities, and financial need. Some of these awards are provided by outside organizations, others by specific departments at Buffalo State.

The scholarships listed below are administered by the Financial Aid Office. Students fill out a single form for all. Unless otherwise stated, all students may apply. In most cases, selection is made by the sponsoring organization. Notices of deadlines are published in the student newspaper and are on file in the Financial Aid Office.

All scholarships administered by the Financial Aid Office require that the student have financial need. Students must file the Free Application for Federal Student Aid (FAFSA). See the scholarship application for more information and deadlines.

### Alpha Sigma Alpha Evelyn G. Bell Memorial Scholastic Excellence Award Fund

To a student who has earned at least a 3.5 GPA, completed two semesters at Buffalo State, or is a new transfer student transferring at least 30 credits.

### Bridge the Gap Grant

The student must be a matriculated Buffalo State student. Preference is given to full-time students and seniors. A GPA of 3.0 or higher is required.

**Class of '42 Scholarship Fund**  
**Class of '43 Scholarship Fund**  
**Class of '44 Scholarship Fund**  
**Class of '45 Scholarship Fund**  
**Class of '46 Scholarship Fund**  
**Class of '47 Scholarship Fund**

Each fund supports annual awards for nontraditional students enrolled in degree-granting programs at Buffalo State.

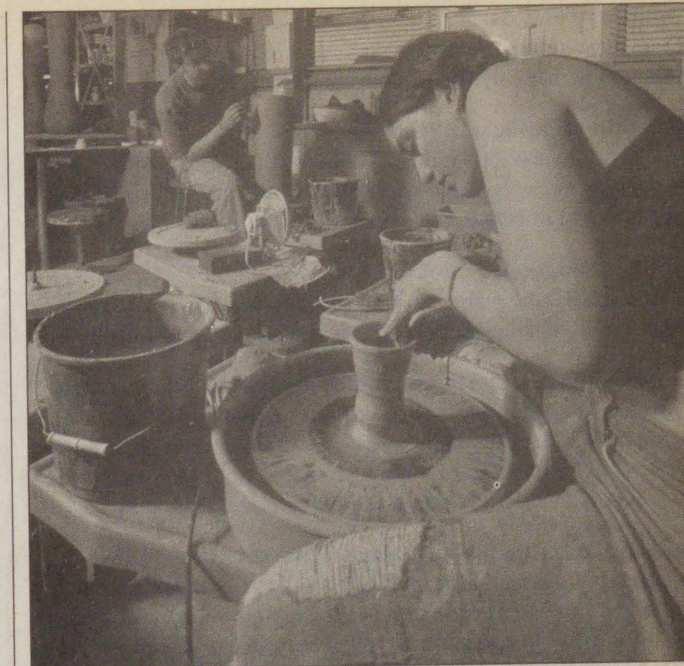
### College Club of Buffalo Scholarship

Student must be a sophomore in the fall with a minimum 3.0 GPA who lives in Erie County (preference given to women).

### Daniel Upton (Sigma Sigma Sorority Alumni Chapter) Scholarship

For junior females majoring in education.

### Mothers Club at Central Park United Methodist Church Scholarship



### Hudson Scholarship

For graduates of Erie County high schools (excluding the City of Buffalo). Preference will be given to graduates of Orchard Park High School.

### Buffalo Federation of Women's Clubs Scholarship

### William A. and Virginia M. Troy Scholarship

Student must have at least a 3.25 GPA at Buffalo State. Student must also be a resident of Erie or Niagara County and be entering his/her sophomore, junior, or senior year at Buffalo State.

**The following scholarships/awards require separate application forms and, for the most part, have more specialized requirements:**

### Alumni Scholarship

For all students. Applications are available in the Alumni Office, Cleveland Hall 214.

### Additional Alumni Scholarship

Awards for undergraduates who are from specially designated areas or are members of particular organizations. Applications are available in the Alumni Office, Cleveland Hall 214.

### Andrew Brown Choral Arts Scholarship

Given annually to an outstanding student or students in choral music performance.

### Dr. Anna P. Burrell Underrepresented Minority Scholarship

Students must be from an underrepresented ethnic group (African-American, Hispanic, Native American), a New York State resident, have completed a college preparatory high school program, have a minimum 85 percent unweighted high school average, rank in upper 40 percent of high school class, and demonstrate involvement in extracurricular activities in high school and the community. Contact the Admissions Office for more information.



### Chemistry Scholarship

For outstanding junior female majoring in chemistry. Selection is made by the Chemistry Department.

### Exceptional Education Grants

Grants from various fraternal organizations available to majors in all areas of exceptional education. Contact the chair of the Exceptional Education Department, Ketchum Hall 201.

### Foreign Language Scholarships

Two scholarships are available through the Foreign Language Department, Bishop Hall 121. Application deadline is April 1.

### Frances Siu Lan Tyau International Student Scholarship

Annual scholarships awarded to international students. Candidates are screened by a selection committee in March of each year. Further information is available from the director of international student affairs, Campbell Student Union 400.

### Eleanor Blackburn International Student Scholarship

Annual scholarship awarded to a sophomore international student. Candidates are screened by a selection committee each spring. Further information is available from the director of international student affairs, Campbell Student Union 400.

### Computer Information Systems Award

Annual award for academic excellence. Selection is made by Computer Information Systems Department.

### Marie Dellas Creative Award

Annual award to a junior/senior for notable creative achievement in the arts. Selection is made within the department.

### Emil H. Hoch International Fund

To assist Buffalo State to meet international goals by expanding educational experiences, working for peace, addressing environmental concerns, and increasing awareness of cultural groups.

### Alfred H. Kirchhofer Scholarship

Annual scholarship to an outstanding student in communication. Selection is made within the Communication Department.

### Michael T. Morrissey Memorial Scholarship

Annual award to incoming freshmen from Niagara Falls High School, LaSalle Senior High School, and Palmyra-Macedon Central School. Also awarded to selected student in the Business Department. Determined within the department.

### Michael Dominico Jr. Scholarship Award

To a performing arts major who shows the most proficiency and accomplishment in several areas of the department as determined by the faculty. Priority to graduate of North Collins High School. Contact the chair of the Performing Arts Department, Rockwell Hall, (716) 878-6401.

### Nutrition, Hospitality, and Fashion Department Awards

Awards for outstanding students majoring in nutrition, hospitality, and fashion. The department makes selection. An application form may be obtained in Caudell Hall 106. Please contact the department early in the spring semester regarding application deadlines.

### President's Honors Scholarships

Scholarships renewable for up to four years are available for

incoming freshmen selected on high school average, SAT scores, and class rank. Extracurricular activities and community involvement are also considered. Transfer students or students already enrolled at Buffalo State with a 3.5 grade point average or better may contact the Honors Program Office, South Wing 130A, on availability of scholarships. The following are some of the named Presidential Honors Scholarships:

Ford Dealers Cooperative	Byron Hill
Irving and Roslyn Cowle	Bruce and Gail Johnstone
Marion Cyran	Chester A. Pugsley
Arlene Deckert	Hermina Takats
Ferguson Electric Construction Co.	Rosalie Turton
Graphic Controls Corp.	Schutte and Company
Thomas F. Higgins	Nelson K. Upton

### Study-Abroad Scholarships

Annual scholarships awarded to Buffalo State students participating in study-abroad programs administered by the college. Deadline is April 1 for programs in the subsequent summer, fall, and spring. Applications are available in the International Education Office, Cleveland Hall 416.

### The following departments and programs have awards for outstanding students:

Anthropology Department  
Art Education Department  
Biology Department  
Chemistry Department  
Criminal Justice Department  
Earth Sciences and Science Education Department  
Economics and Finance Department  
Elementary Education and Reading Department  
Exceptional Education Department  
Faculty of Natural and Social Sciences  
Fine Arts Department  
Foreign Language Department  
Geography and Planning Department  
History and Social Studies Education Department  
Intercollegiate Athletics  
Mathematics Department  
Performing Arts Department  
Physics Department  
Political Science Department  
Psychology Department  
Sociology Department  
Technology Department  
Theater Program

### More Information

Scholarship search programs are available through the college's site on the World Wide Web: <http://www.buffalostate.edu>.

Another search program is available in the Financial Aid Office. The office also maintains a private scholarship resource book, available to students in the Financial Aid Office during office hours. Please contact the office for more information.

### Changes for 1999-2001

Federal and state regulations regarding financial aid programs are subject to changes. Contact the Financial Aid Office for the most current information.

## STUDENT SERVICES

### Academic, Cultural, and Social Opportunities

Buffalo State College offers a wide array of student services aimed at helping students adjust to the academic demands of college and become involved in the life of the campus community. These services, described below, help you link life and learning, and foster your growth and development in and out of the classroom.

The staff members you will encounter in our student service departments work as partners with the faculty to enhance the quality of student life at the college. We hope that you will make use of the many academic, cultural, and social opportunities on campus developed by the offices described in this section. The new and diverse learning experiences you will have during your time at Buffalo State will enhance your understanding of yourself and of the world.



### Buffalo State Bookstore

Campbell Student Union lower level, (716) 878-5509

Monday-Thursday, 8:30 a.m.-6:00 p.m.

Friday, 8:30 a.m.-3:30 p.m.

Saturday, 11:00 a.m.-2:30 p.m.

Extended hours offered at the beginning of each semester.

Summer hours: Monday-Friday, 8:00 a.m.-4:00 p.m.

The bookstore carries books and educational materials for course-related use and other merchandise to meet the casual needs of the college community. The wide range of merchandise includes: new and used textbooks; general paperbacks; bargain books; art, school, and office supplies; emblematic merchandise; greeting cards, gifts; sundries; and computer hardware, software, and supplies. Additional services offered are: book special orders; film processing; money orders; fax services; calculator, typewriter, VCR, and movie rentals.

The store accepts cash, personal checks, MasterCard, Visa, American Express, and Discover. A textbook deferment program is also available. The bookstore is a service of Barnes and Noble.

### Campbell Student Union

(716) 878-4631

Monday-Friday, 7 a.m.-11 p.m.

Saturday, 10 a.m.-11 p.m.

Sunday, 10 a.m.-11 p.m.

One of the most important buildings at Buffalo State is the Campbell Student Union, located in the center of campus. It's used by commuters and resident students alike, and it's a great place to meet old friends and make new ones.

The first floor, usually a beehive of activity, houses, among other things, the campus Information Center, Tickets/Travel, the Plaza Complex, the Cookery, the Pulse, Taco Bell, the Side Pocket Billiards and Game Room, the FSA Laundromat, automatic banking facilities, the *Elms* Yearbook Office, and the campus FM radio station, WBNY. The Buffalo State Bookstore supplies educational materials for course-related use as well as general merchandise.

The Ticket/Travel Office, open Monday through Friday, 9:30 a.m.-3:30 p.m., sells Greyhound bus tickets, U.S. Airways airline tickets, and student discounted Metro Bus passes and tokens. A number of student organizations use the services of this office.



On the second floor are the Fireside Lounge, the Campbell Social Hall, and the Assembly Hall, all used for a variety of activities. The offices of Leadership Education, Service Learning, and Commuter Services, and the Dean of Students/College Judicial System are also located on the second floor.

The third floor has eight meeting rooms as well as the offices of United Students Government, International Student Affairs, and Student Life. Included in the Student Life Office are Greek Affairs, Minority Student Services, Native American Student Services, Student Activities, and Student Union Operations.

### Career Development Center

Cleveland Hall 306, (716) 878-5811

Some evening hours

Web: [www.buffalo.state.edu/~cdc](http://www.buffalo.state.edu/~cdc)

The Career Development Center (CDC) is not just for seniors and graduates. Freshmen, sophomores, and juniors also turn to the CDC for help in making decisions about majors and careers, and for assistance in finding jobs and internships.

### Making Decisions About Majors and Careers

Students use the CDC to learn how their interests, abilities, values, experiences, and personalities translate into careers and occupations. They also can find out about careers and occupations that relate to each Buffalo State major. A series of "Careers In..." handouts gives specific information regarding various fields. Finally, the CDC makes sure students learn methods for making good decisions about careers and majors. Here are some of the ways the center can help you:

**Career Counseling:** Students may meet individually with a career counselor to discuss career and major decisions.

**Career Assessment Inventories:** Students may be given inventories to help assess their interests and personality traits as they relate to careers.

**Computer-Assisted Career Guidance (DISCOVER):** This system helps each student see where he or she would fit into the world of work by displaying the majors, occupations, and careers most relevant to his/her own special qualities.

**Career Information Center:** This is an up-to-date reference library used by students to find detailed information about careers they are considering. Information is available regarding entry occupations and careers for every Buffalo State major.

**Career Information Events:** Representatives from various career fields visit the campus to offer students a first-hand look into a host of career options.

**Network:** Buffalo State alumni have volunteered to speak with students about their career fields.

**Internships:** The CDC has many internships posted in the office and on its Website. For students looking to gain valuable real world experience, an internship is the way to start.

### Finding Employment

The center teaches students how to find jobs and assists in uncovering professional opportunities. Workshops, current literature, and free handouts are offered on such topics as resumé and cover letter writing, interview preparation, and job searching. We also offer a resumé and cover letter critique service, and a mock interview program.

Through the Employment Referral Program, the Career Development Center brings Buffalo State job candidates to the attention of national, state, and local employers. In addition, large

recruitment events, such as Teacher Recruitment Days, Job Quest (a liberal arts and business job fair), and the Summer and Part-Time Job Fair, are held annually. A reference file service is also available for use in job and graduate school applications.

### Selecting a Graduate School

Advisement concerning graduate school programs, a graduate school fair, applications for graduate admissions tests, and a comprehensive graduate school library complete the center's services for postgraduate planning.

### Child Care Center

Buckham Campus School C-Wing, (716) 878-5335

(information, tours)

Monday-Thursday, 7:30 a.m.-5:30 p.m.

Friday, 7:30 a.m.-5:00 p.m.

Accredited by the National Academy of Early Childhood Programs, a division of the National Association for the Education of Young Children, the nation's largest organization of early childhood educators, Buffalo State's Child Care Center is open to the children of undergraduate and graduate students, faculty, and staff. Children between the ages of six weeks and five years are accepted on a first-come, first-served basis.

The center is licensed by the New York State Department of Social Services, and is open year round (with the exception of 11 federal holidays, two staff/parent orientation days in August, and a week-long holiday break in December).

The center is committed to providing a developmentally appropriate program in a safe, predictable environment so children can develop their social, emotional, cognitive, and physical abilities.

Tuition is based on a sliding fee schedule.

### Counseling Center

Porter Hall (basement), (716) 878-4436

Monday-Wednesday, 8:30 a.m.-5:00 p.m.

Thursday, 8:30 a.m.-6:00 p.m.

Friday, 8:30 a.m.-4:30 p.m.

The Counseling Center provides professional psychological services to students experiencing developmental or situational difficulties that may interfere with their ability to take advantage of the educational opportunities offered by the college. The staff includes licensed psychologists and a social worker. The center offers a variety of services: single session consultation for problem solving or decision making, individual and group counseling, intervention in crisis situations, skill development workshops, limited psychiatric consultation, psychological testing, and help with academic, personal, and vocational problems. Developmental programming is also offered in wellness, retention, stress management, cultural diversity, acquaintance rape prevention, and gender/sexual identity issues.

Information shared in counseling is confidential and is protected to the full extent of the law.

Our services are limited to short-term counseling, and referral is provided to students to link them with appropriate community resources for long-term assistance.

While counseling is not provided to faculty or staff, center counselors are available for consultation and also offer classroom presentations on topics of psychological interest.

After-hours emergency service is provided in collaboration

with Crisis Services (834-3131), a 24-hour community hot-line service. Public Safety, at 878-6333, is also available for emergencies on a 24-hour basis.

### Dean of Students

Campbell Student Union 306, (716) 878-4618

The primary mission of the dean of students is to provide a dynamic educational environment that creatively integrates stimulating learning and co-curricular activities. As a leader, the dean is dedicated to the care and development of the student as a whole person. The dean works in cooperation with college constituencies to initiate programming that enhances the social, spiritual, intellectual, emotional, and physical well-being of all students.

The dean oversees a variety of departments and programs, including residence life, international student affairs, student life, the college judicial system, minority student services, and the mediation program.

Serving as a "red-tape cutter," the dean assists individual students and student groups in the resolution of campus difficulties when normal channels become difficult or in situations that require special attention. In addition, the dean regularly collaborates with academic and administrative staff, serving as an advocate and spokesperson for students and student groups.

### Statement Regarding Acceptable Behavior

Buffalo State is committed to being a racially, ethnically, and culturally diverse community. This conviction emanates from the college mission statement that welcomes students, faculty, and staff from many religious and cultural backgrounds, confident that they will find the college environment congenial, rewarding, and enriching.

For these reasons, every incident of racism or bigotry, whether blatant or otherwise, undermines the college's aspirations and diminishes the ideals of its community. In that each individual is valued, any action that demeans the worth or integrity of anyone brings injury to all.

At Buffalo State, discrimination, harassment, exclusion, abusive or insensitive language, or any manifestation of bigotry or racism is abhorrent.

Everyone at the college shares in the responsibility to encourage and reflect those values that support Buffalo State's highest aspirations as a scholarly and humane community.

### Dining and Food Service

Campus House, (716) 878-5214

Monday-Thursday, 8:30 a.m.-5:00 p.m.

Friday, 8:30 a.m.-4:30 p.m.

College Dining Services provides "Food for Thought" with dining facilities conveniently located throughout the campus. The Campbell Student Union, 878-4128, houses a variety of eateries. From pizza to tacos to bagels to salads, students will find a wide range of food choices. Other dining locations include "The Restaurant" in Moot Hall, 878-4433, open for dinner Sunday-Thursday. The "Undergrounds" coffee house in Moot Hall is a great place to relax with friends after class to enjoy a cappuccino and sample from an array of fresh baked treats. In addition, College Catering, 878-4433, provides food service for events, and the Bengal Express Cart Service is located in several classroom buildings.

Freshmen and sophomore resident students are required to purchase a meal program, allowing the convenience and flexibility of dining throughout the campus. Commuters and upper-division students will also find that a meal plan offers them convenience, flexibility, and savings, since meal plans are tax free and deferrable against financial aid. Students should experiment to experience all the food service options available.

Vending machines are located throughout the campus, providing a variety of goodies, healthful snacks, and beverages for busy students. Vending purchases can be made with cash or SUNYCard. For more information on SUNYCard use for vending machines and library copiers or for refund information, call FSA at 878-5211. FSA also operates a concessions stand in the Sports Arena.

### Faculty-Student Association

Campus House, (716) 878-5211

Monday-Thursday, 8:30 a.m.-5:00 p.m.

Friday, 8:30 a.m.-4:30 p.m.

The Faculty-Student Association (FSA) provides the following auxiliary services on campus: dining and catering, vending, campus pharmacy, and general services.

The Faculty-Student Association is governed by a 13-member board of directors composed of elected faculty, students, and professionals, and by representatives of administration appointed by the college president. Inquiries about student employment in the areas listed below can be directed to this office.

The General Services Division operates the game room and coin-operated amusement games in the Campbell Student Union, in addition to overseeing washers and dryers in residence halls and copiers in Butler Library. The game room is open seven days a week during the academic year. The manager of General Services has an office in the Campbell Student Union (878-4029).

Dry cleaning is available Monday-Friday in the game room.

### Health Center

Weigel Health Center, (716) 878-6711

(Call for information and hours)

Weigel Health Center provides health and wellness services for all registered students, including commuters.

In addition to diagnosis and treatment of illnesses and injuries, the professional staff stresses health education and preventive medicine. Students can be seen on a walk-in or appointment basis and there is no charge for most services.

Students can learn life skills, and in some instances, earn college credit, by participating in the Volunteer Program. The Outreach Program sponsors professionals and peer educators who present topics on health issues such as wellness, stress management, sexuality, violence, alcohol, and other drug prevention. Educational resources are available for student research or classroom projects.

### Immunization Requirements

New York State requires all students to be in compliance with the law regarding measles, mumps, and rubella. Please check with the Health Center if you are unsure of your status. You will not be permitted to register unless you are in compliance. All students are responsible for meeting the requirements of the law and should consult with Health Center staff. MMR immunizations are provided at the Health Center at no cost.



### Student Health Insurance Plan

This optional plan is designed to meet the needs of college students. It covers laboratory fees, X-rays, basic dental service at our dental clinic, and prescription drugs (with a co-pay), in addition to hospital, surgical, and other benefits. A trained representative is available to explain policy provisions and to help students submit claims. The International Health Insurance Program is required of all international students and is also administered through this office.

Weigel Health Center also provides these special facilities:

### Campus Pharmacy

*Weigel Health Center, (716) 878-5824*

The Faculty-Student Association sponsors a professional pharmacy that offers prescription services to all registered students. Prescriptions are competitively priced and over-the-counter medication is also available.

### Laboratory Service

A private lab provides services at the Health Center. Fees for laboratory services are covered by the Student Health Insurance Plan. Students not enrolled in the plan are directly responsible to the lab for payment.

### Dental Clinic

*Weigel Health Center, (716) 878-6716*

This clinic is funded by United Students Government (USG). All activity fee-paying students are covered for teeth cleanings and X-rays, emergencies, diagnosis, and preventive instruction. Fees for basic services are covered by the Student Health Insurance Plan. Presentation of ID card is required.

### Alcohol and Other Drug (AOD) Education Program

The college is committed to informing students about the impact of alcohol and other drugs on health and well-being. The AOD Education Program offers education and skill development programming with a focus on risk reduction and lifestyle alternatives to AOD use.

### Intercollegiate Athletics

*Houston Gymnasium 103, (716) 878-6533*

The Intercollegiate Athletics Department sponsors varsity competition in eight sports for men (basketball, cross country, ice hockey, football, indoor track, soccer, swimming and diving, and outdoor track and field) and 11 sports for women (basketball, cross country, ice hockey, indoor track, lacrosse, soccer, softball, swimming and diving, tennis, outdoor track and field, and volleyball). Club teams in sports such as baseball, men's lacrosse, bowling, water polo, and rugby are funded through USG.

### International Student Affairs

*Campbell Student Union 400, (716) 878-5331*

A variety of assistance is available to international students through the International Student Affairs Office, which offers academic advisement and personal counseling in addition to aid regarding visas, work permits, and relevant regulations of the Immigration and Naturalization Service. A special three-day orientation program is provided for incoming international students at the beginning of each semester and tests are administered for English language competency and placement.

This office also coordinates the American Host Family Program, which pairs international students with American families, and the International Friendship Program, which pairs incoming international students with American students. It also coordinates a Global Perspectives Program with the larger Western New York community and the college's International Alumni Program. A semi-annual newsletter, a special booklet titled "Information for New Students From Abroad," and a "Directory of Faculty and Staff With International Qualifications" are published. Various cultural events are planned throughout the year to add an international flavor to campus life.

### Leadership Education, Service Learning, and Commuter Services

*Student Union 311, (716) 878-5533*

The Leadership Education, Service Learning, and Commuter Services Office offers many services to both commuter and residential students at Buffalo State College.

### Leadership Education and Development Center

The LEAD Center promotes the development of leadership to enable students to more fully contribute to their communities. The center targets individual students as well as student group leaders and advisers. The center organizes the biannual Corporate Training Weekend seminars, Quick Tip presentations on leadership issues, and campus workshops. Students are trained to take the lead in student organizations and develop leadership skills that apply to every aspect of life. The LEAD Center coordinates the selection and presentation of the annual Student Affairs Mildred Campbell Student Leadership award.

### Service Learning Volunteer Center

Students also need to get to know their Buffalo neighbors, and a great way to do it is through the Service Learning Center. With more than 90 volunteer agencies participating, students can explore the exciting community service opportunities available in the area. Individualized referrals are provided to every student who wants to volunteer for a few hours, one day, or a full semester. Each spring semester the center holds a Volunteer Recognition Reception to recognize the efforts of Buffalo State College volunteers. The center also helps coordinate the Annual Community Halloween Party and Haunted Tunnel, the Spirit of Giving Week, and the Volunteer Fair.

### Commuter Services

Commuter Services provides off-campus housing listings as a service for students. The listings include apartments and rooms for rent, roommate matching, and subletters wanted. College employees do not inspect, approve, or supervise the premises described, and the college does not become involved with landlord/tenant disputes. Tenants' rights manuals, sublet leases, and inspection forms are samples of the information available to students. Information about living in the Buffalo area is also available.

Commuters can get food for less with a Faculty-Student Association commuter dining card. Put as little as \$5 on a card and pay no tax with each purchase. This is deferrable against financial aid awards. Pick up an application in the office.

The Commuter Locker Room is designed for students who are tired of carrying around all those books and supplies. Lockers are free. Students simply supply their own locks.

The Information Desk located in the lobby of the Campbell Student Union is the center for transportation information. Metro Bus/Rail schedules are available. Students may also purchase Metro Bus passes and tokens at reduced rates. The Ticket/Travel Center offers Amtrak, airline, and bus tickets.

### Minority Student Services

*Campbell Student Union 400, (716) 878-4631*

This office provides an atmosphere where students are encouraged to discover and strengthen their talents. A holistic approach to the development of students of color is emphasized using a wellness model. The office sponsors social and educational events, and encourages the celebration of the campus community's diverse heritages. The Minority Student Services Office also acts as a referral center for other campus services and assists students with administrative matters. The office serves African-American, Latino, and Native American students and provides linkages with faculty, staff, and other students. The office supports the:

**NIA Mentor Program:** Pairs freshmen students of color with upper-division students, faculty, or staff who act as role models and advisers. The program received a national retention award.

**IMHOTEP Society:** A study group on African and African-American history.

**Culture to Culture Coalition:** An organization created to improve communication among student leaders from different backgrounds.

**Native American Student Services:** Provides culturally sensitive recruitment and retention programs for Native American students; maintains internship and financial aid databases; serves as community liaison; provides referrals for campus and community service; coordinates cultural programming for the campus and outside communities; works with the Native American Student Organization; and networks with member institutions of the SUNY Native American Western Consortium.

### Orientation

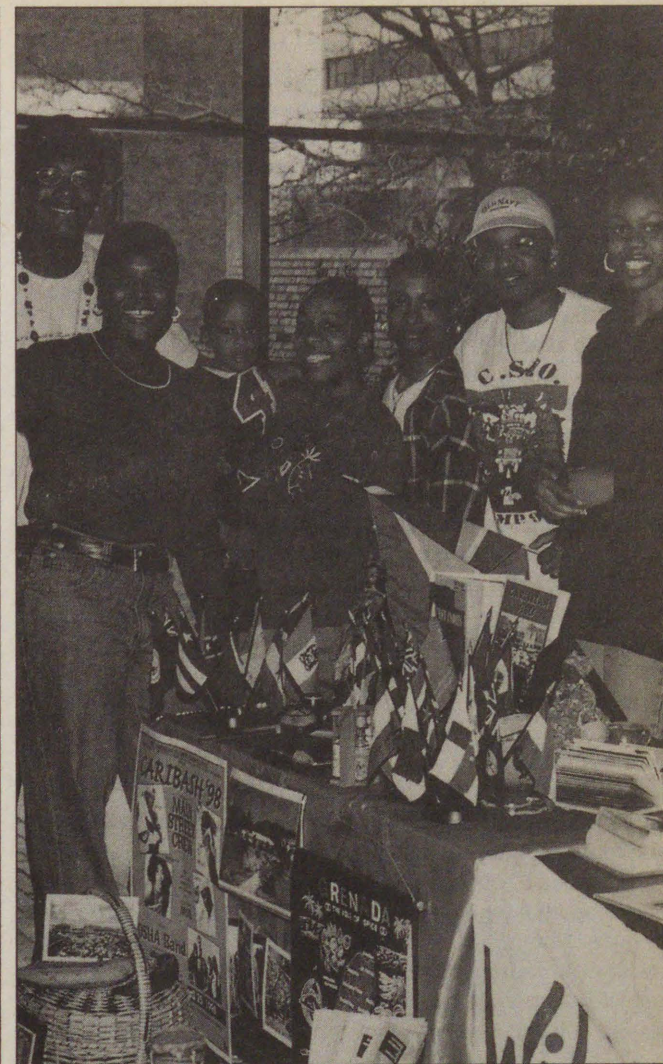
*New Student Programs and Academic Advisement Office  
South Wing 100, (716) 878-5336*

Entering freshmen and transfer students are introduced to many aspects of campus life during orientation sessions, conducted during the summer for students beginning in the fall, and in January for midyear students.

The New Student Programs and Academic Advisement Office plans and conducts sessions designed to meet the needs and special interests of new students. Programs include academic advisement, course scheduling assistance, registration, information sessions on academic and student-related services, small group meetings, academic survival workshops, competency testing, and campus tours.

During this period there are also opportunities for meeting faculty, staff, and upper-division students. Evening activities ranging from films, music festivals, live theater, and open recreation are planned to give students a taste of the social climate of the college.

Family workshops held during orientation introduce families to administrators and staff who can provide information on such topics as public safety, student health, resources, residence facilities, and academic services. Attendance at orientation is manda-



tory, and a program fee is required for participation. All students at orientation receive registration material.

In addition, throughout the first year, the office continues to provide assistance and referrals to new students. These services include the coordination of the New Student Seminar Program, freshman and family newsletters, the Peer Mentor Program, and other specific programs targeted toward new students.

### Residence Life (Housing)

*Porter Hall, (716) 878-3000*

The goal of the Residence Life Office is to support, complement, and enhance the academic mission of the college through a dynamic residence life program. The program encourages individual growth and development for a diverse residential student population. Additionally, management systems ensure the orderly and effective administration of all aspects of the programs, including facility management, housekeeping, and security.

Each residence hall is managed by trained student staff, both graduate and undergraduate. These students, resident directors, and resident assistants are directly responsible to a professional



staff member in their area and to the director of residence life. Resident directors and resident assistants advise and assist students, promote student health and safety, and help students initiate educational, social, and recreational programs.

Most residence hall rooms accommodate two students. If no roommate preference is expressed, students are assigned a roommate based on available information. Roommate preferences are honored on a space-available basis. Preferences will be considered only if both students request each other. Each student is provided with a bed, desk, chair, closet space, and a chest of drawers. Students are reminded to bring with them items such as sheets, pillows, blankets, bedspread, towels, and a desk lamp. Both room and board fees must be paid in full before room assignment is finalized.

The residence hall program has many alternatives to offer students. There are three basic living arrangements available. The corridor-style structure is the traditional hall setting with rooms next to each other extending down a long hallway. Lounges in these halls are centrally located on each floor and on the main level. The corridor-style buildings on campus are Neumann, Perry, and Porter halls. The second type of residence hall is suite-style, in which three or four student rooms connect with a small communal living area. Twin Rise North and Towers one through four are designed as suite-style. Moore Complex consists of apartments in which two to four students share a bathroom, living room, and kitchen.

All residence halls are coeducational, which means that they have both females and males residing in the same hall—not the same room or suite. All bathroom areas are single sex. Specialized areas, such as intensive study floors, student teacher floors, non-smoking floors, all-female floors, or senior, graduate, and over-21 housing are available. Year-round housing is also provided on a space-available basis in Twin Rise North for international students and others who need housing through college break periods.

#### Buffalo State College Housing Residency Requirement

National studies have generally found campus residency to correlate positively with student learning and retention. SUNY policy has long stated that all students are required to live on campus. Buffalo State College is a residential SUNY campus whose programs are designed to provide enhanced opportunities for learning, retention, and a well-rounded education for students.

Buffalo State College enforces a two-year residency requirement. Under this policy, all full-time freshmen and sophomore students (those enrolled for 12 or more semester credits) will be required to live in residence halls on the Buffalo State College campus until they earn junior standing (57 credits). Those exempt from this requirement are: married students, single parents, transfer students, veterans, students over age 21, and students commuting from the home of their parent(s) or court-appointed guardian(s) if within a 35-mile radius of the Buffalo State College campus. Students who feel that they have legitimate reasons for requesting off-campus residency can apply for an exemption through the Residence Life Office.

#### Speech-Language Hearing Clinic

*Ketchum Hall 213, (716) 878-5502*

The Speech-Language-Hearing Clinic provides individual speech-language-hearing services to the college community and to residents of Western New York. Services are provided by graduate students in the Speech Language Pathology Department under the direct supervision of faculty who hold certificates of clinical competence in speech language pathology and/or audiology and the New York State license in speech language pathology and/or audiology. Services include complete diagnostic evaluations and intervention for individuals with speech, language, hearing, fluency, and voice disorders. Communication enhancement is also provided for those wishing to improve English language pronunciation.

#### Special Services for Students With Disabilities

*Academic Skills Center, South Wing 310, (716) 878-4500*

In accordance with the guidelines established by the Americans With Disabilities Act, Buffalo State College assures all individuals with disabilities access to both academic and student life on campus. Students who wish to discuss services and accommodations may identify themselves as individuals with disabilities to the coordinator of special services.

When inquiring about services available in areas such as Butler Library, housing, orientation, and parking, individuals with disabilities are encouraged to contact the appropriate offices directly.

#### Student Government

*Campbell Student Union 402, (716) 878-6701*

United Students Government (USG) represents the interests of all students and encourages their active participation in educational, recreational, cultural, and social programs and activities. USG also provides a variety of services that seek to enhance the Buffalo State College community. These services range from a résumé service to a dental clinic. All programs and services are funded through the mandatory student activity fee.

USG consists of three operating branches of governance. The executive branch is responsible for establishing long-term goals for student government. This branch includes the president, executive vice president, treasurer, vice treasurer, and four administrative vice presidents. The Senate is the legislative branch of the USG. Thirty student senators are responsible for the allocation of the student activity fees, developing and coordinating activities, and advocating the rights of the student body. There is also a USG Judicial Council. The USG Senate meets weekly during the academic year.

All activity fee-paying students are members of USG and are eligible to run for an elected position in campuswide elections if they meet the grade point average and credit hour requirements.

#### Student Life Office

*Campbell Student Union 400, (716) 878-4631*

The Student Life Office encourages student involvement in a variety of out-of-classroom experiences. Participation in campus activities, organizations, committees, and community service programs enhances academic work and helps students develop their skills, attitudes, and talents for life.

The Student Life area includes Student Activities; Leadership Education, Service Learning, and Commuter Services; Greek Affairs; Minority Student Services; and Student Union Operations. The office coordinates a variety of programs. Among them are: Success in Six Weeks, Homecoming, and *Who's Who Among Students in American Universities and Colleges*.

#### SUNYCard

*E. H. Butler Library, (716) 878-6303*

SUNYCard is Buffalo State's multipurpose identification card issued to students, faculty, and staff. This photo ID card enables the cardholder to utilize services in E.H. Butler Library and in libraries on other participating SUNY campuses. The card may also be used as a meal debit card at all campus food services locations, vending machines, and copiers. Through the SUNYCard corporate partners, the card may also be used for long-distance telephone service and banking.

SUNYCard can be obtained in E.H. Butler Library during regular hours. Proper identification (e.g. valid photo driver's license, state-issued non-driver ID, or birth certificate) must be shown to obtain a SUNYCard. The initial SUNYCard is issued free of charge; however, replacement cards carry a \$10 charge.

#### University Police

*Chase Hall 100, (716) 878-6333*

An independent law-enforcement agency charged with the responsibility of providing a safe environment for the college community, University Police are involved in crime prevention and control, criminal investigations, traffic and parking supervision, physical plant security, disaster coordination, community policing, and the maintenance of public order.

Special services include:

- The loan of jumper cables, flashlights, hand tools, or shovels, at no charge
- Provision of Operation Identification marking pens and registration of student ID numbers for property identification purposes in a statewide computer system
- Rape prevention lectures
- Personal safety awareness
- Assisting motorists with minor vehicle problems or calling for service for them if necessary
- Door openings in emergency situations
- Escort service
- Notification in emergency situations
- Found Property Department
- Provision of literature on crime prevention, including home safety, personal safety, and basic tips on how to avoid becoming a victim of crime.

To make arrangements for lectures or special programs, call 878-6332 or 878-6612 between 8:00 a.m. and 4:00 p.m.

#### Parking Rules and Regulations

The rules governing motor vehicles on campus are intended to assure maximum pedestrian and vehicular safety and to establish the most convenient arrangements possible for students, staff, and visitors. Violations will result in parking fines and/or summonses. Motor vehicles may park in any of the designated areas shown on the campus map. Only vehicles with a special permit authorizing them to park in spaces designated for persons with disabilities will be allowed to park in such spaces.

All vehicles parked on the grounds of Buffalo State must display a valid college parking permit. Maps and parking permits are available in the Student Accounts Office, Cleveland Hall 304.

Parking is prohibited:

- On all roadways
- In all fire lanes
- On lawns, grass, or grounds
- On or over painted lines in parking areas or crosswalks
- In such a way as to interfere with free and proper use of a roadway or pedestrian crossing

The department may authorize towing of any vehicle found to be in violation of the college's rules and regulations. The college assumes no responsibility for automobiles and/or their contents. Rules regarding parking for persons with disabilities are strictly enforced. Parking tickets may be paid at Chase Hall 126. For more information, call the Traffic Office at 878-3041.

#### Veterans Certification Office

*Cleveland Hall 208A, (716) 878-5045*

The Veterans Certification Office assists current and prospective students who are veterans, servicepersons, or dependents or survivors of veterans, regarding Veterans Administration educational benefits. Information on current regulations affecting educational benefits, tutorial assistance, and dependency allowance is also provided. Call for hours or appointments.





ACADEMIC POLICIES

The following college academic regulations apply to all students and all college sessions. Students are responsible for determining their academic programs and for meeting every degree requirement. Faculty members who act as advisers are obligated only to assist students in meeting this responsibility. Clarification of any requirements for the baccalaureate degree may be obtained from the faculty adviser, department chair, or academic dean. Check with the Academic Standards Office, South Wing 110, (716) 878-5222, for clarification of other regulations or procedures.

Registration

The Registrar's Office has established the following registration procedures: All currently registered students who will continue their studies during the next regular semester are required to register at advance registration. Procedures for registering are published in the class schedule each semester. Class schedules are available in April for the fall semester, in November for spring, and in March for summer. Students are responsible for obtaining a schedule each semester according to the procedures established by the Registrar's Office.

Students are responsible for notifying the Registrar's Office of any change of address.

Students subject to possible dismissal under probation regulations should register, but they are not officially enrolled until their official status has been determined by the appropriate dean.

Academic advisement is mandatory for all matriculated students. Students who have declared a major must seek advisement by contacting the chair of the department responsible for their major. Advisement for all other students is available in the New Student Programs and Academic Advisement Office, South Wing 100. This advisement can take place any time during the semester prior to registration. The adviser must sign the student's advisement card. A student may remain "uncommitted" for three semesters or until earning 45 credits. Students must declare a major prior to registering for work beyond 45 credits.

Undergraduate and graduate students who discontinue attendance without taking a leave of absence can register for classes, without applying for readmission, for up to four fall and spring

semesters beyond the semester in which they were last registered; baccalaureate graduates and undergraduate students with less than a 2.0 grade point average retain registration eligibility for only one fall or spring semester beyond the semester in which they were last registered.

**Drop/add period** is designed to accommodate students who find it necessary to drop or add a course after the start of classes. Dates and instruction for drop/add period are published in the class schedule each semester.

**The average course load** for undergraduates is 15-16 credits a semester. Should a student desire to register for more than 19 credits, the approval of the Academic Standards Director, South Wing 110, must be secured. Students seeking a waiver of this policy should have an above-average academic record.

**Students with outstanding financial obligations will not be allowed to register at any time. Students clearly subject to dismissal should not begin a new semester or summer session.**

Academic Advisement:  
Audit/Advisement System

Students' academic progress toward meeting graduation requirements is recorded in the computerized audit/advisement system. Copies of up-to-date audit sheets should be secured prior to advisement and can be obtained from the departmental secretary or chair. Necessary corrections or questions about the audit sheet information should be brought to the attention of the academic adviser or the department secretary. Students may also access their audit sheet directly by using their student user ID as described in the section on Computing Services.

Academic Advisement:  
Role of Students and Faculty

Effective academic advisement is the interaction between a qualified adviser who is knowledgeable and sympathetic, and a serious student who is motivated and receptive, as together they evaluate and plan the student's course of study.

Academic Calendar 1999-2000\*

FALL 1999 FIRST SEMESTER	
Orientation	Monday, Tuesday, Wednesday August 23, 24, 25
Final Registration	Wednesday, Thursday, Friday August 25, 26, 27
Classes Begin	Monday, August 30
Labor Day (no classes)	Monday, September 6
Columbus Day (no classes)	Monday, October 11
Veterans Day (no classes)	Thursday, November 11
Thanksgiving Recess (no classes)	Wednesday through Saturday November 24-27
Study Day	Friday, December 10
Critique and Evaluation Period	Monday through Thursday December 13-16
Final Day of Semester	Thursday, December 16

SPRING 2000 SECOND SEMESTER	
Intersemester	Monday, January 3-Friday, January 21
Martin Luther King Jr. Day (no classes)	Monday, January 17
Orientation	Tuesday, Wednesday, Thursday January 18, 19, 20
Final Registration	Wednesday, Thursday, Friday January 19, 20, 21
First Day of Classes	Monday, January 24
Presidents Day Recess (no classes)	Monday, Tuesday February 21, 22
Spring Recess (no classes)	Monday through Saturday March 20-25
Study Day	Friday, May 5
Critique and Evaluation Period	Monday through Thursday May 8-11
Final Day of Semester	Thursday, May 11
Commencement (tentative)	Saturday, May 13

STUDENT DEADLINES 1999-2000	
Course Withdrawals	November 5, 1999 for Fall 1999 March 31, 2000 for Spring 2000
Cross Registration	August 25-26 for Fall 1999 January 19-20 for Spring 2000
Leave of Absence	November 5, 1999 for Fall 1999 March 31, 2000 for Spring 2000
Incomplete Grades	November 5, 1999 for Spring or Summer 1999 March 31, 2000 for Fall 1999
Pass/Fail Application	October 15, 1999 for Fall 1999 March 10, 2000 for Spring 2000
Undergraduate Degree Applications	September 17, 1999 for December 1999 February 11, 2000 for May 2000 March 3, 2000 for August 2000

\*Calendar dates are tentative; please refer to the calendar in the current course schedule.

The task of the adviser is to provide guidance and information for the student to make efficient progress in the pursuit of an academic goal. The adviser is responsible for being well-informed and ready to provide aid in the selection of specific areas and courses, and for helping the student fulfill academic regulations and interpret administrative policies. The task of the student is to seek advisement, to understand, and to be responsible for decisions. The student should be familiar with the sources of information on requirements, regulations, and policies. The college bears the responsibility for establishing procedures and providing a setting conducive to good advisement.

The student must be convinced that the adviser is interested, informed, and caring. The adviser must foster open two-way communication and be willing to share greater experience without attempting to impose value systems on the student. Therefore, advisement requires an environment of mutual respect, trust, and cooperation.

The adviser should maintain a view of the student's progress and be aware of any difficulties the student encounters. Personal, financial, health, study habits, and a host of other factors may directly affect the progress of a student's academic career. The good adviser should be willing to listen sympathetically to any problems arising from these factors and help the student to arrive at informed decisions. The adviser should be prepared to inform the student of options and campus resources available for the solutions to problems that may affect academic performance. Since the academic adviser is often the only person on campus to whom the student can turn in times of indecision or stress, it is incumbent upon the adviser to ensure that the student's problems are treated with seriousness and concern.

Attendance

There is no uniform attendance policy set by the college. Attendance regulations are established by each instructor and will be distributed at the start of each semester.

Auditing Courses

Students may audit or take courses without earning credit, provided they have the approval of the department chair and the instructor of the course. A person auditing a course will attend without formal recognition, not be on the official class list in the Registrar's Office, not be required to meet the requirements of the course, and not be charged tuition or fees for the course.

*Exception:* Auditing is not permitted in any study-abroad program.

*Special audit:* Persons over 60 years old may audit courses if there is space available. Arrangements can be made through the Admissions Office, Cleveland Hall 206, (716) 878-5511.

Dropping or Withdrawing From a Course

Dropping Courses

Students may completely drop their registration in one or more courses during a drop/add period each term. Dropping a course at that time removes all record of the course from the student's transcript.



### Withdrawal From Courses

Students who wish to leave a course after the drop/add period and before the final withdrawal date (the end of the 10th week of the semester or two-thirds of a summer session or intersemester) may file withdrawal forms signed by the appropriate instructor or instructor's department representative with the Registrar's Office, Cleveland Hall 204. Check the class schedule for deadlines. Withdrawals remain on the transcript and are recorded as "W"s, but do not count in credit hours or grade point average.

Instructors are required to apprise students of their academic standing not later than the end of the ninth week of the semester or the third week of a summer session. If a student does not officially withdraw from a course and stops attending, a grade of "E" will be recorded.

Students withdrawing from some coursework may be eligible for a refund in accordance with the college refund schedule. Beyond the end of the refund schedule's time limit, full charges are assessed. Student teaching courses have different deadlines. Check with the department.

### Declaring a Major

All students who have started as freshmen at the college must decide on an academic major before the completion of 45 credits. Transfer students who have completed more than 30 credits must declare a major at the time of application for admission. Before declaring a major, students should seek the advice of the chair of the department or division responsible for the major. A change of major form, available from the chair, must then be completed and sent to the Registrar's Office.

Some academic programs have special requirements that the student must meet before being admitted as a major. For example, fine arts candidates must submit a portfolio of representative work. The department chair or program coordinator can provide information on specific requirements.

### Changing a Major

Students who have completed at least one semester at Buffalo State may change their major by going to the department office of the new major and filling out a change of major form. It is recommended that they seek the advice of the department chair before deciding to change a major. If the change is approved by the chair, the form will be forwarded to the Registrar's Office for recording. Such changes should be made at least four weeks before registration for the next semester so that students are not restricted from registering for any course in their new major.

A student on probation will not be permitted to transfer to a new major without the approval of the faculty responsible for the new major.

### Second Major, Single Degree

A student may fulfill the requirements for two majors and receive a designation on the official transcript indicating the completion of a baccalaureate degree in one major with the fulfillment of requirements of a second major. The student must identify a primary major in which the degree will be awarded. In fulfilling the requirements of a second major, the student will make careful use of electives. The student files for a degree in the Registrar's Office indicating on the degree form the degree

major and the second major. Upon receipt of the degree, the student's transcript will contain two entries: the major degree, and a notation that "this student has also completed all requirements for a second major in the appropriate area."

Regular advisement of the student is done by the primary major adviser. Students opting for a second major should contact the department involved, request a review of their progress and academic advice concerning the second major, and complete a declaration of second major form to be filed with the Registrar's Office. Only one baccalaureate degree may be awarded for a four-year, 123-credit-hour program.

### Dual Baccalaureate Degrees

The awarding of two degrees at the baccalaureate level may occur under given circumstances. Coursework in fulfillment of requirements for two baccalaureate degrees (B.S. or B.A. or both) may be undertaken simultaneously or concurrently, but requires significant additional coursework (at least 32 hours—usually one additional year) in distinctly different fields. Exceptions to this requirement are the bachelor of fine arts and bachelor of technology, in which two degrees may be awarded upon the fulfillment of the requirements of each degree. Students must earn a minimum of 155 credits to qualify for two baccalaureate degrees. Advisement should be sought from the Academic Standards Office, South Wing 110.

### Leave of Absence/Withdrawal From College

#### Leave of Absence

Matriculated students who wish to leave the college for personal or financial reasons may be granted leaves of absence of two full years (four fall/spring semesters) beyond the semester in which they were last registered, as long as they are in good standing with a minimum 2.0 grade point average. A leave will not be granted to study at another college or university.

Students wishing to begin a leave during a semester already in progress must apply before the end of the first 10 weeks of the semester. These approved leaves will begin at the date the request is received by the Registrar's Office.

Emergency medical leaves of absence of varying lengths of time are granted for documented serious injury or illness.

An application for leave of absence can be obtained in the Academic Advisement Office, South Wing 120, (716) 878-5336, or in the appropriate academic department office. Begin the application by conferring with the department chair.

#### Withdrawal

To maintain good standing and eligibility for readmission to the college, students finding it necessary to withdraw must do so officially. Refunds of tuition will be made on a prorated basis up to the fourth week of classes of the semester.

#### To Officially Withdraw

1. Consult the department chair and obtain an Application for Withdrawal From College form from the department office, signed by the chair and dean. Uncommitted students obtain the form and signature from New Student Programs and Academic Advisement, South Wing 120.

2. File the form with the Registrar's Office, Cleveland Hall 204, and complete the withdrawal procedure as outlined by that office.

Failure to file for withdrawal will result in the recording of an "E" grade in each course in which the student is registered. When it is impossible to withdraw in person, it must be done by a letter from the student or parent to the dean. Students withdrawing officially with no outstanding obligations or commitments to the college are considered to be in good standing.

A request to withdraw from the college must be received in the Registrar's Office no later than the last working day prior to critique and evaluation period.

### Graduation/Commencement

All students expecting to qualify for a degree must fulfill the following requirements:

1. File application with the Registrar's Office, Cleveland Hall 204, by the specified date. Failure to make application before the date may eliminate the student from the commencement program and unduly delay the granting of the degree.
2. Students must meet all financial obligations to the college and return all college property.
3. Students must meet all curricular requirements. They must have completed the prescribed curriculum for their major. If requirements have changed since they were admitted to a program, they may choose to graduate under the old or new requirements.
  - a. Students must maintain a 2.0 cumulative average for all coursework taken at the college. The cumulative average for the courses taken in the major field must also be at least 2.0. All students must satisfy the English composition and basic mathematics requirements.
  - b. Students must have taken 42 credits in the general education area.
  - c. All candidates must have completed a minimum of 45 credits of upper-division coursework, courses generally considered advanced and numbered 300-499.
  - d. A minimum of 32 credits, including the last 16, must be completed at the college.
  - e. Foreign language requirement, where appropriate, must be fulfilled.
  - f. A minimum of 123 academic credits must be completed.
  - g. Students who entered this college in the fall 1987 semester or later are required to successfully complete two "writing intensive" courses indicated by the designation "W" following the course number.
  - h. Students who entered this college in the fall 1991 semester or later are required to successfully complete three credits each in Global Issues and Diversity.
4. Elementary education majors must fulfill a drug education requirement (see page 48) and should file a certification application with the Teacher Certification Office, Caudell Hall 110.
5. No students will be cleared for graduation until all symbols of "I," "N," or "X" have been replaced with an appropriate grade.

#### Commencement

Commencement is held each year at the end of the spring semester. All degree requirements must have been completed before students may participate in commencement exercises.

### Grading

The college uses letters to indicate the status of a student at the completion of a course. All grades are awarded at the sole discretion of the faculty member in charge of the course. A grade must be submitted for every student on the course roster at the end of the semester. Students will be apprised of evaluation policies in each class at the beginning of every semester. This information will also include notification, where appropriate, that the plus/minus grading system will be used.

Instructors will inform students of their standing in each course by the end of the ninth week of the semester, or the third week of a summer session. Questions regarding grading policies or an individual grade received in a particular course should be addressed to the instructor or to the department chair.

#### Grades awarded by the college are:

- |    |  |
|----|--|
| A  | = Superior                                       |
| A- |  |
| B+ |  |
| B  | = Above average                                  |
| B- |  |
| C+ |  |
| C  | = Average  |
| C- |  |
| D+ |  |
| D  | = Below average, but passing                     |
| E  | = Failure or unofficial withdrawal from a course |
| S  | = Satisfactory                                   |
| U  | = Unsatisfactory                                 |
| P  | = Pass   |
| F  | = Fail   |

#### The following letters are used to indicate status:

- |   |                       |
|---|-----------------------|
| I | = Incomplete          |
| N | = Grade delayed       |
| X | = Grade not submitted |
| W | = Withdrawn           |

#### Explanation of Grades

**S** (satisfactory) and **U** (unsatisfactory) grades are reserved for student teaching or other field experiences that are not readily evaluated by the normal letter grades and basic skills courses.

**P** (pass) and **F** (fail) grades are given for courses taken on a pass-fail basis (see description below). They may be submitted only under proper authorization.

A **W** (withdrawn) may be submitted only when a student has formally withdrawn from a course.

An **I** (incomplete) may be submitted only when the department chair or program coordinator has been properly notified.

An **N** (grade delayed) may be given when coursework normally carries over from one semester to another and when it is necessary to delay grading to a subsequent semester. This is intended for graduate theses/projects and internships. The "N" may be submitted only with the permission of the department chair or program coordinator.

#### Incompletes

An instructor may grant an incomplete only when circumstances leading to a student's failure to complete course requirements are known to be beyond the student's control; for example, serious illness or unavailability of material. An



Incomplete Course Contract form obtained from the department must be completed and signed by both the student and the instructor granting the "I" grade.

Incompletes must be converted to a letter grade by the tenth week of the following spring or fall semester. Anyone not completing the course requirements within this time will automatically have an "E" recorded. If the instructor who granted the incomplete is not able to evaluate the student's fulfillment of course requirements during the stipulated time period, the chair or program coordinator will be responsible for changing the grade.

#### Pass-Fail Option

The pass-fail option permits any matriculated student with at least sophomore standing and a 2.2 cumulative average to take a course for credit without receiving a letter grade of "A," "B," "C," "D," or "E." Students may enroll in one course each semester or summer on a pass-fail basis. All sessions combined make up the summer semester. A "P" pass provides credit but no quality points and is not counted in total hours used to determine cumulative average. A "F" fail is treated as a failure although the hours are not used in computing the cumulative average. A pass-fail credit may be applied toward a degree. Courses required for the student's major and minor cannot be taken on a pass-fail basis.

Any course, except English composition 100-level courses or any course required for completion of a major or a minor, may be taken on a pass-fail basis. Students must declare their intention to do so by the end of the seventh week of classes in any semester or by the end of the first half of classes in the summer. After receiving the approval signature of the student's adviser, a declaration of intent must be filed with the Registrar's Office, Cleveland Hall 204, by the published deadline. An instructor may choose to substitute a letter grade for the pass if written consent from the student is received and the form is submitted with final grades. Once an application for pass-fail has been submitted, the pass-fail option for that semester has been exhausted. Subsequent filing of a substitution form to receive a letter grade does not allow submission of another pass-fail application for that semester.

Students may not use pass-fail to repeat a course for which an "E" grade was earned.

*Note:* Students are cautioned that the amount of pass-fail work permitted may jeopardize their chances for admission to graduate or professional school or for career placement.

#### Quality Point System

The quality point system is used for determining all cumulative averages, as follows:

A = 4.0	C = 2.0
A- = 3.67	C- = 1.67
B+ = 3.33	D+ = 1.33
B = 3.0	D = 1.0
B- = 2.67	E = 0.0
C+ = 2.33	F = 0.0

No other letters carry quality point value.

A student's cumulative average is computed by dividing the total number of quality points by the total number of semester hours attempted in which a grade carrying quality points is earned. For example, consider a student with the following courses and grades at the end of a semester:

#### Example

Course	Grade	Credit	Quality Point Value	Quality Points
MAT 161	B-	4	(x2.67) =	10.68
SOC 101	A	3	(x4) =	12.00
ENG 250	E	3	(x0) =	0
HEW 101	C	1	(x2) =	2.00
PHI 220	D+	3	(x1.33) =	3.99
		14		28.67

The student has attempted 14 credits, successfully completed 11, and earned 28.67 quality points. The cumulative average is 28.67 divided by 14 credit hours, or 2.04.

If the student had taken an additional three-credit course, DES 371, and received a "P," the cumulative average would not change. If the student received an "F" in DES 371, using the pass-fail option, the cumulative average would not change.

#### Change of Grade

Grades submitted at the end of the semester are considered final and may be changed only under these circumstances:

1. In the event of a clerical error resulting in an incorrect grade, the instructor must submit a written request to the office of the appropriate faculty dean requesting a grade change. Requests will be accepted only during the period before April 1 for fall and summer courses and November 15 for spring courses. The appropriate dean must approve all grade changes.
2. Any other request for a grade change will be considered by the appropriate dean only if accompanied by a full written justification from the instructor.

#### Repeating Courses

A student may repeat a course for which an "E" grade was earned. The course must have exactly the same prefix, number, title, and credits to be repeated to earn a passing grade. In addition, the repeated course must be taken at Buffalo State College. If the student subsequently passes, only a passing grade and those semester hours completed will be used in determining the cumulative average.

If a course is failed more than once and subsequently passed, then the passing grade will replace only one failing grade in the determination of the cumulative average. All grades remain on the permanent record. Students may not use pass-fail to repeat a course for which an "E" grade was earned. A passing grade will not replace an "F" or "U" grade. Courses with letter grades "A-D" cannot be repeated. Courses that are illegally repeated will not be used in computing the cumulative average. Practicum courses may differ. Check with the department.

## Honors

#### Dean's Honors List

Students earning a one-semester grade point average of 3.5 or higher for a minimum of 12 credits of letter grade work ("A-D") at Buffalo State College will be named to the Dean's Honors List for that semester. Grades of "S" and "P" will not be counted. Students are ineligible for honors if they have incomplete coursework "I," "N," "X," or a grade of "U" in a course for that semester.

Part-time matriculated students (students carrying less than a 12-hour course load per semester) may be considered for Part-Time Dean's List only after completing 12 credits of letter grade work ("A-D") at Buffalo State. The Dean's List designation will be determined once a year at the end of the spring semester for courses taken during that semester and the preceding fall semester.

An honors citation is given to graduating students who have maintained a 3.5 or higher average for all work completed. Students with an average of 3.8 to 4.0 will be designated summa cum laude; 3.65 to 3.79 magna cum laude; and 3.5 to 3.64, cum laude. To be considered for an honors citation, a student must complete at least 60 credits at the college.

No students with outstanding grades of "I," "U," "X," or "N" may be considered for honors (see section explaining grades).

#### All College Honors Program

The All College Honors Program is designed to address the needs of academically gifted students within the framework of the 42-credit general education requirement. Open to a select number of incoming freshmen and transfers, the All College Honors Program requires students to earn honors credits across disciplines in the arts, humanities, social sciences, math/science, and applied science and technology. Students must maintain a 3.5 cumulative grade point average to remain in the program.

Students interested in this program should contact the Admissions Office at (716) 878-5713 or the program coordinator.

#### Honors in Majors

Many departments have programs leading to baccalaureate degrees with honors. Generally these departments require special criteria for admission to the departmental major and six credits of predetermined honors work to earn the distinction.

Students interested in departmental honors programs should contact the department of their choice. The following majors can be pursued as baccalaureate degrees with honors: anthropology, biology, broadcasting, communication, criminal justice, earth sciences, economics, geology, history, journalism, philosophy, physics, psychology, public communication, social studies, and the arts.

#### Honors Convocation

This recognition of academic excellence is held each spring semester. Students with a cumulative grade point average of 3.5 or higher after earning 45 credits are invited to attend the Honors Convocation with family members and a faculty guest. (Transfer students are eligible after completion of 30 credits.)

## Academic Probation/Dismissal

#### Good Academic Standing

The term "in good standing" means that a student is eligible or has been allowed to register for and undertake academic coursework at the college for the term in question. In some instances, a student may be defined as being "on academic probation." The mechanism of academic probation, including any accompanying constraints upon a student's activities, is intended as an educational device designed to encourage greater effort on the part of a student who appears to be having difficulty in meeting certain academic standards. Placement on academic probation may precede denial of the right to register for academic coursework if certain conditions are not met, but a student on academic probation is considered to be in good academic standing. Any questions concerning whether or not an individual student is in good academic standing will be determined by the campus committee on academic standards.

#### Probation

A student whose cumulative average falls below a 2.0 is automatically classified as "on academic probation." The cumulative average is determined at the end of each semester and is included on the term grade report. A student on probation has until the completion of the next regular semester to raise the cumulative average to 2.0. Failure to do so by that time may result in dismissal from the college.

A student facing dismissal because of a low cumulative average may appeal that status by seeking a hearing before the appropriate Probations Appeal Board. An appointment may be made in the dean's office of the faculty responsible for the student's major program. Uncommitted students (who have not enrolled in major programs) can make such an appointment in the Academic Standards Office, South Wing 110. The dean or director of academic standards may extend the period of probation according to the merits of the individual student's case.

Each student on probation must report grades to the appropriate office at the end of the semester, through a grade and average report form.

#### Academic Dismissal

A student may be dismissed from the college for:

1. Failing any course for the third time.
2. Failing one-half or more of a semester's work.
3. Failing to satisfy the probation requirements.
4. Failing to complete basic skills requirements by the end of the sophomore year.

A student who has been academically dismissed must wait one full year from the time of dismissal before being considered for readmission. If readmitted, all coursework taken previously will be considered in computing the cumulative average, unless the student has opted for Academic Clemency as described on page 17.

Readmission forms are available in the Admissions Office, Cleveland Hall 206.



Academic Misconduct

All students are expected to display honesty and integrity in completing course requirements and college academic regulations. "Academic misconduct" refers to plagiarism or cheating on examinations or assignments, and is inconsistent with the aims and goals of Buffalo State. Specifically, students may neither use the work of another individual without proper acknowledgment nor perform work for another individual. Other examples of inappropriate academic conduct include prior acquisition or possession of an examination or submission of false data. As a result of a sustained allegation of academic misconduct, a low or failing grade for part or all of the coursework may be given to the student, at the discretion of the instructor. No penalty for an alleged instance of academic misconduct may be imposed unless the student has been apprised of the allegation, the penalty, and the procedures of due process that are available.

A statement outlining formal college policies and procedures to be followed in cases of alleged academic misconduct will be on file in each dean's office, in the Academic Standards Office, and in the Student Life Office.

Cases of severe infractions of acceptable standards may be brought before the Academic Misconduct Board, chaired by the director of academic standards, and may result in academic dismissal.

Academic Eligibility for Financial Aid

Financial aid guidelines require that to continue to receive financial aid, a student must show evidence of making satisfactory academic progress toward a degree.

New York State (TAP) and federal Title IV (Pell, NDSL, SEOG, CWSP, and Stafford Student Loan/NYSHESC) regulations for eligibility are basically concerned with program pursuit for each semester and satisfactory academic progress, which is a cumulative item. These regulations affect all students regardless of the date of their first award. (Note the Title IV chart below.)

Good Academic Standing is defined on the eligibility charts below. To be in good academic standing, a student must have

TAP ACADEMIC ELIGIBILITY CHART\*

	Award Terms										
	Semester	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
Program Pursuit											
1. Number of credits enrolled		12	12	12	12	12	12	12	12	12	12
2. Number of credits completed in the previous semester with a passing or failing grade		0	6	6	9	9	12	12	12	12	12
Satisfactory Academic Progress											
3. Number of credits accrued through end of previous semester		0	3	9	21	33	45	60	75	90	105
4. Cumulative grade point average through end of previous semester		0	1.0	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9

\* Effective fall 1996, students who have received four semesters of TAP must maintain a 2.0 GPA.

TITLE IV ACADEMIC ELIGIBILITY CHART

	Award Terms										
	Semester	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
Program Pursuit											
1. Number of credits enrolled		12	12	12	12	12	12	12	12	12	12
2. Number of credits completed in the previous semester with a passing or failing grade		0	6	6	9	9	12	12	12	12	12
Satisfactory Academic Progress											
3. Number of credits accrued through end of previous semester		0	3	9	21	33	45	60	75	90	108
4. Cumulative grade point average through end of previous semester		0	1.5	1.8	1.8	1.9	1.9	2.0	2.0	2.0	2.0

completed the minimum number of credits for the appropriate semester of enrollment and have maintained at least the cumulative grade point average listed for that semester.

Reasonable Progress Toward a Degree means that, in addition to good academic standing requirements, it is necessary for financial aid recipients to be full-time students and to pursue an academic program at a minimum rate of progress.

The charts on the previous page indicate the minimum criteria for pursuit of a program and satisfactory academic progress. TAP allows a one-time waiver for students who may be temporarily below the standards of good academic standing. Title IV regulations allow a student to continue receiving aid when mitigating circumstances prevent the student from remaining in good academic standing.

Undeclared Students must declare a major no later than the beginning of the junior year or after the accumulation of 57 credits to be eligible for TAP or Title IV funds. Critical questions may be directed to the Academic Standards Office, South Wing 110, (716) 878-5222.

Graduate Courses

Second-semester seniors at Buffalo State may register for graduate-level coursework if they have maintained a minimum grade point average of 2.5 in the last 60 hours of coursework and a 3.0 grade point average in the relevant area. A maximum of six graduate credits may be taken as a senior. The combined enrollment of undergraduate and graduate courses should not exceed 15 credits/semester. A Special Permission form must be signed by the instructor, department chair, and the dean of graduate studies.

Courses taken in this manner are related to the graduate program of study and will not apply to the undergraduate degree. These courses may be applied toward an advanced degree provided they are acceptable to the major program. The six-year time limitation on the completion of the master's degree program applies to these as well as other credits. Undergraduate students may enroll in 500-level graduate courses only; they are not eligible for 600- or 700-level courses.

Academic Levels

Students are given class designations according to the number of credits they have earned. Undergraduate levels are:

Freshmen	0 to 28 credits
Sophomores	29 to 56 credits
Juniors	57 to 88 credits
Seniors	89 credits or more

Alternate Methods of Earning College Credit

Advanced Placement Examinations

Credit may be granted for acceptable scores in approved advanced placement examinations, provided the subjects meet the curricular requirements of the specialized units of the college. Approved examinations include: New York State College Proficiency Examinations (CPEP), College Entrance Examination

Board Advanced Placement Examinations (AP), College Entrance Examination Board College Level Examinations (CLEP).

Students receiving the lowest passing grade may be admitted to an advanced course but will receive no credit for the beginning course that was exempted. All other passing grades carry college credit. Before taking such an examination for credit, students already enrolled at the college must receive advance approval from the appropriate department chair. When the examination subject is the same as or overlaps a college course already credited, no new credit will be granted.

Course Challenge

Each department determines which courses may be challenged by examination. Matriculated undergraduate students may earn credits by challenging the specially designated courses. The following rules apply:

1. Total challenge credit may not exceed 30 credits.
2. A course in which a student is currently enrolled may not be challenged.
3. A course may not be challenged more than once.
4. Credit earned will be recorded as credit (CR) only rather than by grade.
5. No credit will be awarded when the challenged area duplicated an area for which credit already has been awarded.
6. A student must be matriculated to register for a course challenge.

Contract

Taking a course by contract is one form of independent study open to students who have reached sophomore level and are in good academic standing. Students are provided with a course outline, bibliography, statement of responsibilities, and dates by which responsibilities are to be met. Students may then pursue the course independently under the guidance of a faculty member. The number of conferences, type of evaluation, and culminating activity will be decided by the faculty member and the student before registration for the course. These requirements must be filed with the department chair.

Freshmen are also eligible to take courses by contract under special circumstances. They may do so if:

1. They are in their second semester of a one-year course and have a grade of "A" or "B" in the first semester part of the course.
2. They have successfully challenged the preceding course in the sequence.
3. They have entered the college with excellent high school records or have done honors work in pertinent fields in high school.

Application forms are available in the academic department and the Registrar's Office, Cleveland Hall 204, and must be filed with that office by the deadline published in the class schedule each semester. Applications must be signed by both the instructor and department chair.

Credit for Experiential Learning

Credit for college-level experiential learning is available. Matriculated students who consider their previous learning experience as college-level creditable may enroll in AEL 300, Educational Assessment and Portfolio Development, a three-credit course, with permission of the Lifelong Learning Office. This course is open to matriculated students who must attend an information session in August to become familiar with the



portfolio development process. In AEL 300, students will conduct a self-appraisal and inventory of all potentially creditable prior learning. The portfolio will be treated as an application to appropriate departments for the award of college credit.

Within the guidelines noted below, credit for experiential learning follows essentially the same principle as transfer credit—students may receive credit for knowledge gained elsewhere that conforms to existing college courses. Students may receive a maximum of 30 credits. Credit will be awarded on the basis of its correspondence to existing Buffalo State courses. Credit earned will be recorded as credit (CR) only, rather than by grade.

For information, contact the Lifelong Learning Office, Twin Rise 100, (716) 878-5906.

#### Cross Registration

Students who have reached the sophomore level may take courses at any public or private college in Western New York with which Buffalo State has a cross-registration relationship for degree credit as long as they maintain a 12-credit load at Buffalo State College. They may enroll for no more than one course elsewhere in any semester. Students who fall below the 12-credit load at the college will forfeit any credits earned at another institution that semester under the cross-registration procedure.

Students wishing to take a course on another campus that will apply toward a major must receive permission from the department chair. Cross-registration approval forms are available in the Registrar's Office, Cleveland Hall 204, and must be signed by the student's adviser and returned to the Registrar's Office for signature. Students must then take the signed cross-registration approval to the appropriate campus where they must register according to the procedures of that campus.

Transcripts are forwarded automatically to Buffalo State at the end of the semester. Courses taken through cross-registration are recorded as if they had been taken at Buffalo State (credits and grade counts in cumulative average).

There is no cross registration during the summer. Any credits taken at a two-year institution after a student has achieved upper-division status cannot be applied to degree requirements.

#### Off-Campus Study

Courses may be taken at other institutions for transfer credit as long as prior approval from the department chair is obtained and the proper forms from the Registrar's Office, Cleveland Hall 204, are completed and returned to that office.

Students are urged to have transcripts of all coursework completed elsewhere forwarded to the Registrar's Office as soon as possible. Any credits taken at a two-year institution after a student has achieved upper-division status cannot be applied to degree requirements. Coursework undertaken elsewhere, other than by cross registration, will be recorded as transfer credit on the college transcript.

#### Independent Study (499)

Independent Study provides students with the opportunity to pursue a topic that may be covered only briefly or not at all in regular course offerings. Students may choose a faculty sponsor who is an expert in the selected topic, and together they determine all aspects of the study, including the method of evaluation. The description of the study must be approved by the chair of the sponsoring department.

Students electing to do independent study should have a degree of knowledge in the area they have chosen in addition to a strong motivation to work alone much of the time. Independent study is never a substitute for a course already being offered that term.

Specific requirements for independent study are:

1. Sophomores, juniors, and seniors who have satisfactorily completed basic courses or their equivalent in the area of study chosen are eligible to participate. They need a minimum GPA of 2.0 and a GPA of at least 2.0 the previous semester, plus a better than 2.0 GPA in work completed in the selected area. Freshmen who have successful advanced preparation in the selected area may also be allowed this option.

2. The study must be relevant to the student's total program, and the student must derive special benefit from supervision by the college staff. The study must meet standards established for such programs by the department or program.

3. No independent study may be undertaken for fewer than three credits. A maximum of 30 credits in all areas may be taken independently by a student. No more than two independent studies may be taken in one semester.

Further information is available from the department chair and program coordinator. Application forms are available in the academic department and the Registrar's Office, Cleveland Hall 204, and must be filed with that office by the deadline date published in the class schedule each semester.

#### Project (495)

Upper-division students may undertake a project related to a required course for up to three credits per project. No more than six credits of academic project work is allowed. Application forms are available in the academic department and the Registrar's Office, Cleveland Hall 204, and must be filed with that office by the deadline date published in the class schedule each semester.

#### Internship (488)

Internship programs provide students with guided and supervised field experiences (experiential learning) as part of their degree programs. Students who wish to participate in the program *must* have at least a 2.0 GPA and a background of courses or experience within the area of interest. Approval for experiential learning situations must be obtained from either the student's adviser or the chair of the department within which the student is a major, the supervising faculty member, and the chair of the department within which credit will be granted. An individual student will be permitted to apply a maximum of 15 credits toward the baccalaureate degree.

#### Topics Courses (189 and 389)

The topics format provides the opportunity for in-depth study and examination of rapidly and significantly changing disciplinary issues, topics, or practices, and may also be used to accommodate requests of external agencies or the specialized resources of visiting faculty members. A student may accumulate a maximum of nine credits in one discipline.

#### Military Service Educational Experience

Up to 15 college credits may be awarded for education received through military service, specialty schools, technical training schools, and basic training programs. Request for such



credit should be made to the Admissions Office, Cleveland Hall 206. Documents showing completion of such courses should accompany all requests.

Evaluation of this experience is based on its relation to college degree requirements and recommendations suggested by the American Council on Education Credit Manual.

#### Credit by Evaluation

Up to 45 credits may be accepted from the following sources:

Source	Maximum credits
Published examinations .....	30
<i>No more than 18 may be in general examinations</i>	
Course challenge .....	30
Military service courses .....	15
Noncollegiate institutions .....	15
Proprietary institutions .....	15

*Published examinations:* Included in this category are nationally given subject and general examinations sponsored by the College Level Examination Program (CLEP), Advanced Placement Program (APP), and College Proficiency Examination (CPE). Passing grades are required for credit.

*Course challenge:* Requirements are outlined on page 45.

*Military service courses:* Requirements are outlined above.

*Courses from noncollegiate organizations:* For credits to be granted, the institution must be approved by the State Education Department and listed in its "A Guide to Educational Programs in Noncollegiate Organizations." Noncollegiate organizations are those whose primary function is not education, such as the American Institute of Banking. Such credit applies primarily to the major and is determined by the appropriate department.

*Courses from proprietary institutions:* The institution must be approved by the State Education Department and listed in its official publication of approved institutions. Proprietary institu-

tions are privately owned and for-profit such as Bryant & Stratton Business Institute. Such credit is applied primarily to the major and is determined by the appropriate department.

#### Transcript of Academic Record

Official transcripts of records are not issued directly to students but will be forwarded upon request to authorities whom the student may designate.

A student copy may be ordered for personal use. A \$5 fee must be paid for each transcript requested. Proper photo identification and 24-hour notice is required when picking up the student copy. Transcript request forms are available in the Registrar's Office, Cleveland Hall 204.

Transcripts will not be furnished for students who have incurred a financial obligation to the college.

Transcript requests sent by mail must include the student's name, current address, student (Social Security) number, dates of attendance, graduation date (if applicable), name and address of the party to whom the transcript is to be sent, the student's signature authorizing release of the transcript, and a \$5 check or money order payable to Buffalo State College. All checks or money orders must include student (Social Security) number.

Transcript requests by telephone cannot be honored.

All requests are acted upon in the order in which they are received. Sufficient time is necessary for processing; requests should be made well in advance.

#### Teacher Certification

**New York State Teacher Certification requirements are being revised. Please contact your department or the Teacher Certification Office for current information.**

#### New York Certification

All students who successfully complete an approved program in teacher education will be recommended to the New York



State Education Department for a provisional certificate. Applications for certification can be obtained from the Teacher Certification Office in Caudell Hall 110.

The New York State Education Department requires satisfactory performance on an exam before a certificate can be issued.

#### Teacher Certification Examination

Starting September 1999, successful completion of the New York State Teacher Certification Examination is required for New York State certification in all areas. Information can be obtained from the Teacher Certification Office.

#### Dual Certification

Contact the Teacher Certification Office for details.

#### Interstate Certification

As a participant in the Interstate Certification Project, Buffalo State has reciprocity agreements with a number of other states allowing its graduates to be certified there. These include reciprocity for classroom teachers, vocational teachers, and administrative personnel in various states. The New York State Teacher Certification Examination may not be acceptable in other states. Students should check with individual states to determine specific requirements.

#### Drugs, Alcohol, Tobacco, and Child Abuse Identification Instruction

All registered teacher education programs leading to certification for teaching in the early childhood and upper elementary grades (N-6) or the early childhood, upper elementary grades, and an academic subject in the early secondary grades (N-9) shall include adequate preparation regarding instruction in alcohol, tobacco, and drug abuse. Students in these registered programs will have met the requirement within the course content of required child development courses. While instruction regarding the abuse of drugs, alcohol, and tobacco is not required by the state in secondary certification programs, many students in secondary programs are advised to take coursework in these areas.

All individuals applying for teaching, school service personnel, and administrative-supervisory certification are required to provide evidence of having completed the required curriculum in the identification and reporting of suspected child abuse or maltreatment. Students in registered programs will have met the requirement within the course content of required child development courses. "Certification Only" students will be required to take a separate course in child abuse or complete the child abuse seminar offered by the Center for Development of Human Services.

#### Secondary Education Professional Core

All secondary education programs include a 24-credit professional core. The core is intended to fulfill the requirements of Buffalo State's registered programs in secondary education, State Education Commissioner's Regulations, and the National Council for Accreditation of Teacher Education (NCATE). The following courses comprise the professional core:

SST 200/SED 200	Field Experience: Secondary Education and Related Careers
EDU 303/SED 303	Educational Psychology for Adolescents
EDU 403/SED 403	Forces Influencing Secondary Education
EDU 416/SED 416	Teaching Reading in the Secondary Schools*
Six credits	Methods in the Content Area
Six credits	Student Teaching and Professional Seminar in Content Area

*\*Mathematics majors substitute MAT 181-MAT 182*

Teacher education programs offered by Buffalo State College are accredited by the National Council for Accreditation of Teacher Education.

For more information regarding certification procedures, contact the Teacher Certification Office.

#### Certification for B.S./B.A. Degree Holders

Holders of a B.S. or B.A. degree may complete certification requirements in secondary education programs. It is advised that they commit to the appropriate major. Otherwise, there is no guarantee that required coursework will be available. The following requirements apply:

1. The secondary education professional core, as described above, must be completed.
2. A department may require subject matter courses in the major area to remove deficiencies.
3. All requirements listed in the professional core and all subject matter courses must be completed before the student teaching semester.
4. A full semester of student teaching (12-15 credits) must be successfully completed. Student-teaching placements will be based on availability of faculty resources after the program majors are assigned.

Holders of a B.S. or B.A. degree interested in certification for exceptional education are advised to commit to the appropriate major. Otherwise, there is no guarantee that required coursework will be available.

Holders of a B.S. or B.A. degree interested in elementary education only should contact the Graduate Studies Office, Cleveland Hall 511, for application to a special post-baccalaureate degree program.

#### Transportation to Off-Campus Instructional Sites

Students are responsible for providing their own transportation to off-campus sites for required courses, including student teaching and participation.

#### Unit of Credit

The semester hour is the unit of course credit. It represents completion of one 50-minute class period per week for one semester. A course having three class periods a week will earn three semester hours of credit. Studio, laboratory, and shop classes usually earn one credit for each two hours of attendance unless otherwise indicated. The college expects student preparation of two hours for each hour in class.

#### Waiver of Academic Regulations

Students are expected to adhere to all regulations of the college. However, unusual and extenuating circumstances may warrant a modification of certain regulations.

Students should not request a waiver of any regulations without very strong evidence to justify the waiver. Requests for waivers are made by completing an Academic Appeals Committee Petition in the Academic Standards Office, South Wing 110.

The director of academic standards makes decisions on requests for waivers that do not relate to a student's major after consulting with the Academic Appeals Committee. The director's decision is final. A minimum of one month is necessary to process academic appeals.

Decisions on requests for a waiver related to a student's major are made by the appropriate department chair in accordance with procedures established by the department or area faculty.

#### Transfer Students

Credits previously earned will be evaluated for all transfer students upon receipt of official transcripts, and all transfers will receive a copy of this evaluation. A maximum of 91 credits may be transferred from other accredited institutions, with no more than 66 credits transferred from two-year colleges.

All passing grades will be evaluated on the same basis as grades earned by students at this college.

Most credits from another institution will be accepted, although the college cannot guarantee how credits earned at a two-year institution will relate to bachelor's degree requirements. The most common cases in which transfer credits are not accepted are:

1. Secretarial science courses (except for transfers in the business education or office administration majors).
2. Developmental courses in mathematics, English, and learning skills.

3. Courses in theology or religion with sectarian emphasis. Only credit is transferable. Grades, quality points, and cumulative averages do not transfer.

The evaluation of transfer credits is recorded on an audit sheet. Each department has such a form to record all of the major and general college requirements that have already been fulfilled, and those that remain.

Departments reserve the right to refuse to accept transfer credits in fulfillment of their own major requirements. Whether or not a course fulfills a major requirement may be open to discussion with the department chair or academic adviser, and it is useful to have a copy of the catalog from the previous institution available.

#### Student Complaints, Grievances, and Appeals

Buffalo State College complies with New York State Education regulations requiring that campuses have procedures in place for filing complaints and seeking resolution of perceived problems.

#### Student Complaints Regarding Discrimination

If the complaint involves alleged harassment or discrimination on the basis of race, sex, ethnicity, national origin, sexual orientation, religion, age, disability, or marital or veteran status, the

student should utilize procedures administered through the Equity and Campus Diversity Office. Acts of discrimination should be reported immediately to this office for confidential discussion of the alleged acts. Students have 45 days from the alleged act of discrimination or 45 days after receipt of a grade to file a complaint. A copy of the procedures may be obtained in Cleveland Hall 415.

#### Student Complaints Regarding Nonacademic Issues

If the complaint involves other nonacademic issues, the student should deal with procedures administered by the Dean of Students Office, Campbell Student Union 306. However, students are encouraged to seek resolution of the perceived problem directly in the unit in question prior to initiating more formal processes.

#### Student Complaints Regarding Academic Issues

The procedures outlined in the next section pertain to complaints about academic issues other than those dealing with waiver of collegewide academic regulations or graduation issues, which are addressed by petitions to the Academic Appeals Committee. The college seeks to resolve student grievances as promptly and informally as possible. No adverse action will be taken against any student initiating a complaint.

Students who feel aggrieved regarding any aspect of the academic program have a right to request a resolution by bringing the matter to the attention of the appropriate college personnel. Academic appeals regarding a waiver of academic regulations is outlined under "Waiver of Academic Regulations" on this page. If the perceived problem pertains to a grade or the conduct of a particular course, students should follow the Academic Grievance Procedures (below).

#### Student Academic Grievance Procedures

The procedures below pertain to alleged violations or misapplication of college and/or course policies. They are also directed at a student grievance alleging that he or she has been treated unfairly, in violation of established academic policy or practice. The procedures below reflect the college's commitment to a fair and prompt resolution of student academic grievances.

This procedure begins with an informal process, but includes a formal process that centers on hearings and recommended resolution of the grievance in a way that maximizes the opportunity for a full and impartial solution. Request to waive or otherwise alter college academic policies shall continue to be the province of the Academic Appeals Committee (see "Waiver of Academic Regulations" on this page).

The procedures below do not deal with grievances that are based on issues of sexual harassment or discrimination. Such grievances are handled through the Equity and Campus Diversity Office. Similarly, complaints that deal with other non-academic issues are administered by the Dean of Students Office (see section above).

Students are advised to retain all documentation from course(s) including (but not limited to) syllabus(i), test(s), quiz(ze)s, paper(s), or any graded evaluation(s). These materials are required to substantiate any grievance.



### 1. Jurisdiction

A grievance shall include, but not be restricted to, a complaint by a student:

- a. that college regulations and/or policies have been violated or misapplied to him or her;
- b. that he or she has been treated unfairly, defined in terms of established academic policy or practice governing or affecting students at the college.

### 2. Time Limit

**At informal level**—no later than five weeks into the following semester.

**At formal level**—no later than 10 weeks into the following semester.

### 3. Grievance Resolution Process

The process includes the possibility of hearings at two levels: the department and the faculty.

a. At the department level, a student with a complaint should attempt to resolve the complaint informally with the faculty or staff member involved. The assistance of the chair may be sought to resolve the dispute to the satisfaction of both parties. A student must initiate the process no later than five weeks into the following semester.

The student who is not able to achieve resolution with the instructor may initiate a formal grievance or grade appeal process no later than 10 weeks into the following semester by preparing a written statement which includes:

1. a statement of the case in detail;
2. all information about the conference with the instructor;
3. a statement of the reasons the student believes he or she is aggrieved or, in the case of a grade, why it should be reconsidered;
4. all relevant supporting materials, which should be identified and listed in an index.

The student shall submit complete copies of the written statement and attachments to the chair of the department and the faculty member identified in the grievance. The chair shall carefully review the statement, confer with the student and instructor, and attempt to reach a resolution of the dispute. The chair may ask members of the department to serve as a committee to review the materials and assist him or her in reaching a decision. The chair's response must be made within 10 days of the date of the student's request.

In conformance with state regulations, the department shall maintain adequate documentation about each formal complaint and its disposition for at least six years after final disposition of the complaint.

If the department chair is the party against whom the grievance is brought, the student should initiate a review at the level which follows.

b. If the matter is not resolved to the student's satisfaction at the departmental level, he or she may request a hearing at the faculty level by writing to the dean of the faculty and forwarding the documentation to that office. The request must be made within 10 academic days of the receipt of the recommendation of the department chair.

The dean or designee shall convene a three-person committee drawn from a panel of available faculty within 10 days. Such committee shall include one faculty member from the department in which the faculty member resides. Furthermore, after the committee is constituted, the faculty member and the

student have the right to review the committee membership and request alternate members in the event it is believed a member of the committee is not neutral. The committee shall meet and review the materials presented and solicit a response from the instructor to each count of the student's case. In the case of a grade appeal, the committee will familiarize itself with the standards and objectives of the course and evaluative material presented. Concerns shall be limited to consideration of the fairness of the application of the standards and objectives, and whether the standards and objectives were made known to the student in a reasonable manner. The difficulty of the standards shall not be an issue.

The burden of proof shall be on the student, who may be asked to appear before the committee.

In the case of a grade appeal, if the majority of the committee feels no case can be made, the original grade will remain. If it finds that the standards and objectives were not reasonably known to the student or were unfairly applied, it may recommend a different grade and give its reasons for so recommending. The committee shall report its findings in writing to the student, the instructor, and the dean.

If the panel recommends a different grade, the instructor shall have 10 working days from receipt of the panel's report to inform the dean of the faculty of the intent to change the grade. If necessary, the dean may direct that the grade be changed. A change of grade shall not be interpreted as an admission of unfairness in grading.

In the case of a grievance, if the majority of the committee members adjudge the grievance to be without foundation, written notification of their findings will be forwarded to the student, the instructor, and the dean of the faculty. If, in the judgment of the committee, there is a basis for the grievance, a written report will be forwarded to the dean of the faculty with specific recommendations for redress. Copies shall be forwarded to the student and the instructor.

The dean of the faculty will notify all parties of his or her final decision regarding the grievance within 10 working days of receipt of the committee's findings and recommendations.

In conformance with state regulations, the dean's office shall maintain adequate documentation about each formal complaint and its disposition for at least six years after the final disposition of the complaint.

### 4. Committees

Committee members shall be drawn from a list of faculty nominated by departments. In naming the committee to hear a grievance, the dean shall take care to ensure that no member has an interest in the case being heard.

### 5. Confidentiality

Once the grievance committee has been convened to hear a complaint, principals and committee members shall have the obligation to maintain the confidentiality of the proceedings and of all materials presented.

### 6. Review

This procedure must be reviewed after two years. The review process should identify any irregularities in grade changes. In order to facilitate this review, a copy of all documentation/findings at the formal level shall be retained in the department office.

### Complaints to State Education Department

Any individual who continues to feel aggrieved after pursuing the options outlined previously, is unable to resolve the problems, or believes the institution has not properly addressed the concerns, may file a written complaint with the State Education Department within three years of the alleged incident. The complainant may telephone the Postsecondary Complaint Registry to request a complaint form at (212) 951-6493 or write to: New York State Education Department, Postsecondary Complaint Registry, One Park Ave., 6th Floor, New York, NY 10016.

### Students Unable to Attend Classes on Certain Days Because of Religious Beliefs

1. No person shall be expelled from or be refused admission as a student to an institution of higher education because he or she is unable, due to religious beliefs, to register for or attend classes, or to participate in any examination, study, or work requirements on a particular day or days.

2. Any student in an institution of higher education who is unable, because of his or her religious beliefs, to attend classes on a particular day or days, shall, because of such absence on the particular day or days, be excused from any examination or any study or work requirements.

3. It shall be the responsibility of the faculty and the administrative officials of each institution of higher education to make available to each student who is absent from school, because of his or her religious beliefs, an equivalent opportunity to register for classes or make up any examination, study, or work requirements which he or she may have missed because of such absence on any particular day or days. No fees of any kind shall be charged by the institution for making available to the said student such equivalent opportunity.

4. If registration, classes, examinations, study, or work requirements are held on Friday after 4 p.m. or on Saturday, similar or makeup classes, examinations, study, or work requirements shall be made available on other days, where it is possible and practical to do so. No special fees shall be charged to the student for these classes, examinations, study, or work requirements held on other days.

5. In effectuating the provisions of the Education Law, it is expected that faculty and administrative officials will exercise the fullest measure of good faith. No adverse or prejudicial effects shall result to any student for availing himself or herself of the provisions of this section.

6. Any student, who is aggrieved by the alleged failure of any faculty or administrative official to comply in good faith with the provisions of this section, shall be entitled to maintain an action or proceeding in the supreme court of the county in which such institution of higher education is located for the enforcement of his or her rights under this section.

7. The term "religious beliefs" shall mean beliefs associated with any corporation organized and operated exclusively for religious purposes, which is not disqualified for tax exemption under Section 501 of the United States Code.

8. At Buffalo State College, we sharpen the mandate of the state and endorse the policy that prohibits administering evaluative examinations on Rosh Hashana (September 11, 1999, September 30, 2000); Yom Kippur (September 20, 1999, October 9, 2000); and Good Friday (April 21, 2000, April 13, 2001).

### Family Education Rights and Privacy Act (FERPA) Public Notice Designating Directory Information

Buffalo State College hereby designates the following categories of student information as public or directory information. Such information may be disclosed by the institution for any purpose, at its discretion.

1. Name, address, e-mail address, telephone number, dates of attendance, part-time/full-time status, class.

2. Previous institution(s) attended, major field of study, awards, honors (includes dean's honors list), degree(s) conferred (including dates).

3. Past and present participation in officially recognized sports and activities, physical factors (height, weight of athletes), date and place of birth, photographs.

Currently enrolled students may withhold disclosure of any category of information under the Family Education Rights and Privacy Act of 1974. To withhold disclosure, written notification must be received in the Registrar's Office, Cleveland Hall 204, Buffalo State College, 1300 Elmwood Avenue, Buffalo, NY 14222-1095 by September 15. Nondisclosure of information will commence thereafter and be effective until September 14 of the following year. Written notification to withhold disclosure must be made each academic year.

Buffalo State College assumes that failure on the part of any student to specifically request the withholding of categories of directory information by the deadline date indicates individual approval for disclosure.





# ACADEMIC ORGANIZATION

## Academic Organization

The college is organized into three faculties: Arts and Humanities, Applied Science and Education, and Natural and Social Sciences. Each faculty contains specific departments responsible for the degree programs offered there.

All of the major areas of study or interdisciplinary programs described below fall under the responsibility of one or more of the departments.

Each program description, beginning on page 65, gives valuable information concerning all aspects of each course of study offered at Buffalo State College. This information includes the department offering the program, the degree that is granted, an explanation of the program's content and purpose, special admission requirements, required credit hours in the major field and outside of the field, the number of electives allowed, and total degree requirements.

## Faculty of Applied Science and Education

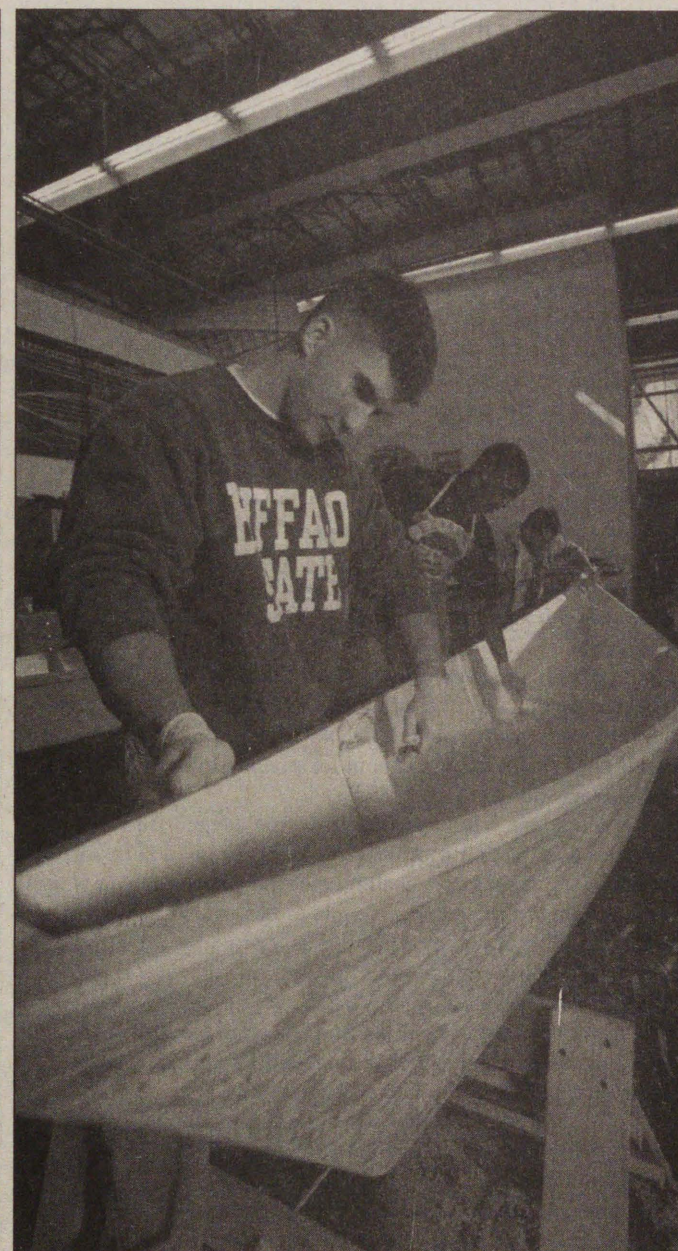
The following departments are in the Faculty of Applied Science and Education: business; computer information systems; creative studies; criminal justice; educational foundations; elementary education and reading; exceptional education; nutrition, hospitality, and fashion; social work; speech language pathology; and technology.

## Faculty of Arts and Humanities

The following departments are in the Faculty of Arts and Humanities: art education, communication, design, English, fine arts, foreign language, performing arts, and philosophy and religious studies.

## Faculty of Natural and Social Sciences

The following departments are in the Faculty of Natural and Social Sciences: anthropology, biology, chemistry, earth sciences and science education, economics and finance, geography and planning, health and wellness, history and social studies education, mathematics, physics, political science, psychology, and sociology.



# COLLEGEWIDE DEGREE REQUIREMENTS

## The General Education Requirement for Bachelor of Arts and Bachelor of Science Degrees

### Goals

The general education requirement is based on the belief that all students who graduate with B.A. or B.S. degrees should be required to take a significant number of courses outside their major areas in order to gain breadth. Through the general education requirement and, in particular, through the careful arrangement of a limited number of courses in selected categories, the college hopes to provide students with a general framework for understanding the complexity and diversity of human experience, and an intellectual context from which to evaluate critically their own values as well as the values of society. This framework will help students gain the experience, knowledge, and sensitivity necessary to function in contemporary society as educated individuals and to adjust to the pressures and demands of careers and of life.

The requirements are structured in ways that will enable students to acquire knowledge of basic scientific methodologies, understand the impact of technology on society, gain insights into the basic workings of institutions and societies, become aware of other cultures and other times, appreciate the role of arts and humanities, and gain a deeper sensitivity to the major ideas and events that shape society.

### The Structure of the Requirement

The general education requirement comprises 42 of the 123 credits necessary for graduation, divided among specific areas of knowledge. In each of the five areas, students may select from lists of approved courses. These lists are updated every two years and only those courses that appear on the list during the semester the student takes the course may be applied to the general education requirement. The courses in this catalog that meet the general education requirement are listed on the following pages, as are the specific categories and credit distribution.

The requirement for each category must be satisfied by courses from more than one distinct academic field as deter-

mined primarily by course prefix designation. For example, if a category includes nine credits, only two of the three courses may come from the same field.

Students may not use courses required for their majors or courses from their major discipline to satisfy any part of the general education requirement.

A description of each course listed may be found in this catalog beginning on page 103.

## Categories and Credit Distribution

Each area must contain courses from at least two distinct academic fields:

<b>Applied Science and Technology (T)</b> .....	6
<i>Appropriate courses from business; computer information systems; criminal justice; educational foundations; elementary education and reading; exceptional education; nutrition, hospitality, and fashion; social work; speech language pathology; and technology</i>	
<b>Arts (A)</b> .....	9
<i>Appropriate courses from art education, design, fine arts, and performing arts</i>	
<b>Humanities (H)</b> .....	9
<i>Appropriate courses from communication, English, foreign language, humanities, and philosophy and religious studies</i>	
<b>Math/Science (M)</b> .....	9
<i>Appropriate courses from biology, chemistry, earth sciences and science education, mathematics, and physics</i>	
<b>Social Science (S)</b> .....	9
<i>Appropriate courses from anthropology, economics and finance, geography and planning, history and social studies education, health and wellness, political science, psychology, and sociology</i>	
<b>Total Credits</b> .....	42



## Special Notes to Students and Advisers

In order to encourage the integration of knowledge derived from the general education requirement, it is recommended that nine of the 42 credits selected by each student focus on a specific, common issue or period that has had a major impact on civilization and that courses selected represent at least two distinct academic fields. These courses and the particular area of special focus would be determined jointly by the student and adviser.

### Courses that may be used to satisfy the 42-credit General Education Requirement:

#### Applied Science and Technology (6 credits)

##### Business Department

- BUS 116 Introduction to Business  
BUS 117 Introduction to Retailing

##### Computer Information Systems Department

- CIS 101 Computer Fundamentals  
CIS 111 Introduction to Programming

##### Criminal Justice Department

- CRJ 101 Introduction to Criminal Justice  
CRJ 201 Criminal Law and Procedures  
CRJ 302 Criminal Justice and the Community

##### Educational Foundations Department

- EDF 206 Introduction to the Group Experience

##### Exceptional Education Department

- EXE 100 Nature and Needs of Individuals With Special Needs  
EXE 306 Behavior Management  
EXE 314 Psychology of Individuals With Special Needs

##### Nutrition, Hospitality, and Fashion Department

- NFS 105 Food and People: Interactions and Issues  
NFS 110 Introduction to Hospitality and Tourism  
NFS 334 Contemporary Nutrition  
FTT 107 Survey of the Fashion and Textile Industry  
FTT 150 Introduction to Fashion Merchandising  
FTT 206 Introduction to Textiles

##### Social Work Department

- SWK 220 Introduction to Social Work  
SWK 319 Dynamics of Poverty

##### Speech Language Pathology Department

- SLP 206 Language Development  
SLP 220 Introduction to Communication Disorders

##### Technology Department

- TEC 123 Principles of Manufacturing  
TEC 150 The Shape of Things  
TEC 260 Development of Technology  
TEC 319 Technology and Values  
TEC 327 Survey of Industrial Pollution Control Problems  
SAF 305 Fundamentals of Safety

##### Honors Courses

- HON 301 Values and Ethics in the Professions

##### Arts

(9 Credits)

##### Art Education Department

- AED 100 Essentials of Visual Arts  
AED 200 Fundamentals of Art Inquiry  
AED 315 Arts in Living  
ATS 320 Introduction to Art Therapy

##### Design Department

- DES 101 Introductory Design 2D I  
DES 103 Introductory Design 3D I  
DES 114 Workshop in Crafts  
DES 190 Design Symposium

##### Fine Arts Department

- FAR 100 Introduction to Fine Arts  
FAR 101 Drawing I  
FAR 210 Introductory Painting  
FAR 220 Introductory Photography  
FAR 230 Introductory Printmaking  
FAR 240 Introductory Sculpture  
FAR 250 Art History I  
FAR 251 Art History II

##### Performing Arts Department

- DAN 200 Beginning Modern Technique I  
DAN 220 Beginning Ballet  
DAN 224 Dance Appreciation  
DAN 302 Modern Dance Technique II

In recognition of the increasing need for quantitative and analytic skills in contemporary society, it is recommended that at least one course be selected that incorporates an approach that is primarily analytic. This may include courses in logic, statistics, mathematics, or computer technology. Such an approach would assist students in the development of a more critical and analytic method of inquiry.

- DAN 330 Ballet II  
MUS 206 Jazz and Rock Foundations  
OR  
MUS 208 Survey of World Music Cultures  
MUS 210 Music Theory for Non-Majors  
OR  
MUS 217 Experiences in Music for Beginners  
MUS 301 Survey of Music History  
MUS 307 Opera and Dramatic Music  
MUS 308 Chamber Music  
MUS 314 Concert Band  
MUS 329 Symphonic Music  
MUS 335 Buffalo State College Singers  
PAR 100 The Lively Arts  
PAR 200 Performance Laboratory  
THA 106 Introduction to Theater Arts  
THA 200 Voice and Diction  
THA 207 Play Production  
THA 317 History of Theater: Ancient to Renaissance  
THA 318 History of Theater: Renaissance to Modern  
THA 332 Period Styles for the Theater

- PAR 100 The Lively Arts  
PAR 200 Performance Laboratory  
THA 106 Introduction to Theater Arts  
THA 200 Voice and Diction  
THA 207 Play Production  
THA 317 History of Theater: Ancient to Renaissance  
THA 318 History of Theater: Renaissance to Modern  
THA 332 Period Styles for the Theater

##### Honors Courses

- HON 103 Arts Seminar

##### Humanities

(9 Credits)

##### Communication Department

- COM 100 Introduction to Mass Communication  
COM 103 Introduction to Human Communication  
COM 205 Introduction to Oral Communication  
COM 321 Rhetorical Criticism  
COM 327 Great Writing and Reporting of American Journalism

##### English Department

- ENG 110 English Literature I  
OR  
ENG 111 English Literature II  
ENG 130 Biblical and Classical Literature  
ENG 140 American Literature I  
OR  
ENG 141 American Literature II  
ENG 151 Introduction to Poetry  
ENG 205 History of Cinema I  
OR

- ENG 206 History of Cinema II  
ENG 231/231W Women in Literature  
ENG 252 Twentieth Century Literature I  
OR  
ENG 253 Twentieth Century Literature II  
ENG 330/330W Literature of the Bible  
ENG 355/355W The Short Story  
ENG 361 Contemporary Literature

##### Foreign Language Department

- FLA 337 Greek and Roman Mythology  
FRE 101 Beginning French I  
FRE 102 Beginning French II  
FRE 110 Accelerated Beginning French  
FRE 331 French Literature in Translation  
GER 101 Beginning German I  
GER 102 Beginning German II  
GER 337 Modern German Literature in Translation  
GRK 101 Beginning New Testament Greek I  
GRK 102 Beginning New Testament Greek II  
ITA 101 Beginning Italian I  
ITA 102 Beginning Italian II  
ITA 336 Modern Italian Literature in Translation  
LAT 101 Beginning Latin I  
LAT 102 Beginning Latin II  
SPA 101 Beginning Spanish I  
SPA 102 Beginning Spanish II  
SWA/ AAS 101 Beginning Swahili I  
SWA/ AAS 102 Beginning Swahili II

##### Philosophy and Religious Studies Department

- PHI 101 Introduction to Philosophy  
OR  
PHI 102 Introduction to Moral and Social Philosophy  
PHI 103 Introduction to Logic  
OR  
PHI 307 Beginning Symbolic Logic  
PHI 104 Introduction to Religious Studies  
OR  
PHI 204 Philosophy of Religion  
PHI 207 Philosophy in Literature

- PHI 301 Political Philosophies and Wealth  
PHI 310 History of Ethics  
OR  
PHI 317 History of Philosophy I: The Greeks  
PHI 321 World Religions  
PHI 323 Moral Issues

##### Honors Courses

- HON 101 Humanities Seminar

##### Humanities Courses

- HUM 100 Introduction to Humanities  
HUM 320 The Tradition of Romantic Love in Western Literature: 1000-Present  
HUM 321 Rhetorical Criticism  
HUM 327 Great Writing and Reporting of American Journalism  
HUM 337 Modern German Literature in Translation

##### Math/Science (9 Credits)

##### Biology Department

- BIO 100 Principles of Biology  
BIO 101 Human Biology  
BIO 104 Environmental Biology  
BIO 115 General Botany  
BIO 116 General Zoology  
BIO 308 Human Anatomy and Physiology  
BIO 309 Laboratory in Human Anatomy and Physiology  
BIO 322 Human Heredity  
BIO 324 Biology of Human Reproduction

##### Chemistry Department

- CHE 100 Chemistry and Society  
CHE 101 General Chemistry I  
OR  
CHE 111 Fundamentals of Chemistry I  
CHE 102 General Chemistry II  
OR  
CHE 112 Fundamentals of Chemistry II

##### Earth Sciences and Science Education Department

- GES 101 Introductory Geology  
GES 102 Historical Geology  
GES 111 General Oceanography  
GES 131 Introductory Astronomy  
GES 223 Environmental Earth Science  
GES 224 Geological Hazards  
GES 241 Meteorology  
SCI 100 Contemporary Science  
SCI 105 Physical Science for Non-Science Students  
SCI 231 Pollution, the Environment, and Society  
SCI 232 Energy, the Environment, and Society  
SCI 327 The Development and Impact of Atomic Science

##### Mathematics Department

- MAT 103 Introduction to Contemporary Mathematics  
MAT 107 Casino Gambling  
MAT 110 Intermediate College Algebra and Trigonometry  
MAT 119 Finite Mathematics  
MAT 126 Calculus  
OR  
MAT 161 Calculus I  
MAT 127 Calculus of Several Variables  
OR  
MAT 162 Calculus II  
MAT 304 Games and Linear Programming  
MAT 306 Problem Solving in Basic  
MAT 311 Introductory Probability and Statistics

##### Physics Department

- PHY 100 Physics for Non-Science Majors  
PHY 107 General Physics I  
OR  
PHY 111 University Physics I  
PHY 108 General Physics II  
OR  
PHY 112 University Physics II  
PHY 103 Understanding Sound  
PHY 200 Creators of the Atomic Age

##### Honors Courses

- HON 102 Natural Science Seminar

##### Social Science (9 Credits)

##### Anthropology Department

- ANT 100 Human Origins  
ANT 101 Understanding Culture  
ANT 144 Introduction to Folklore and Folklife  
OR  
ANT 340 Women in Anthropological Perspective  
ANT 381 Religion, Myth, and Magic  
OR  
ANT 382 Fundamentals of Anthropology  
OR  
ANT 383 Anthropology of Oceania

##### Economics and Finance Department

- ECO 101 The Economic System  
ECO 103 Economic History of the United States  
ECO 201 Principles of Macroeconomics  
ECO 202 Principles of Microeconomics  
ECO 301 Economics of Labor Relations

##### Geography and Planning Department

- GEG 101 World Natural Environments  
GEG 102 Man's Cultural Environment  
GEG 107 Resources and Man  
GEG 200 Introduction to Regional Geography  
GEG 206 Geography of New York State  
GEG 307 Conservation and Environmental Management  
GEG 309 Introduction to Urban Geography  
GEG 363 Geography of Middle America

##### One of the following geography courses:

- GEG 353 Geography of the Former Soviet Union  
GEG 360 Geography of Asia  
GEG 361 Geography of Africa  
GEG 364 Geography of Europe

##### Health and Wellness Department

- HEW 204 Personal and Community Health  
HEW 250 Introduction to Human Movement  
HEW 300 Athletics in Education

##### History and Social Studies Education Department

- HIS 106 History of American Life I  
HIS 107 History of American Life II  
HIS 115 Foundations of Western Civilization  
HIS 116 Europe Since 1500  
HIS 117 Twentieth-Century Europe  
HIS 204 Global History of the Twentieth Century  
SST 102 Problem Solving in the Social Studies

##### One of the following history courses:

- HIS 210 History of Modern Asia  
HIS 211 History of Modern Africa Since 1919  
HIS 313/345 Politics and History of the Middle East  
HIS 314 Modern Latin America  
HIS 322 African-American History

##### Political Science Department

- PSC 101 Introduction to Government and Politics  
PSC 102 Introduction to American Government  
PSC 103 Great Political Issues  
PSC 215 Urban Government  
PSC 218 African-American Political Culture  
PSC 230 International Relations  
PSC 368 Comparative Public Administration

##### One of the following political science courses:

- PSC 225 Women in American Politics  
PSC 240 European Political Systems  
PSC 340 Politics of Developing Countries  
PSC 345/313 Politics and History of the Middle East  
PSC 348 Government and Politics of the Far East

##### Psychology Department

- PSY 101 Introduction to Psychology  
PSY 304 Learning: Theory and Research  
PSY 308 Sensation and Perception  
PSY 311 Personality: Theory and Research  
PSY 325 Social Behavior  
PSY 340 Cognitive Psychology  
PSY 355 Life-span Developmental Psychology  
PSY 367 Organizational Behavior

##### Sociology Department

- SOC 100 Introduction to Sociology  
SOC 240 Analyzing Social Problems  
SOC 310 Sociology of Sex Roles  
SOC 312 Women in Society  
SOC 320 Sociology of the Family  
SOC 330 Social Psychology  
SOC 350 Power, Class, and Inequality  
SOC 351 Sociology of Race and Ethnicity  
SOC 360 Sociology of Work  
SOC 362 Sociology of Organizations  
SOC 380 Sociology of Crime

##### Honors Courses

- HON 302 Social Science Seminar



## Requirements in Global Issues and Diversity

### Goals

One of the major goals of these requirements is to help prepare students to live effectively, thoughtfully, and humanely in a world composed of individuals representing different cultural backgrounds. In particular, Buffalo State College encourages the infusion at all levels of the curriculum of materials that address a global interdependence and American cultural pluralism and diversity.

Given the Eurocentric emphasis in much of American education, this requirement encourages students to study the cultures of non-Western and Latin American peoples.

Diversity attempts to stimulate an awareness of the value of pluralism and diversity in contemporary American society as well as the dangers inherent in bigotry, prejudice, and stereotyping. Ideally, courses that satisfy this requirement should help students develop an increased sensitivity to groups and individuals from traditionally underrepresented populations. Courses

should also provide an academic experience in which students can examine their personal prejudices and values and understand how they affect relationships with others. The information provided in these courses should help students appreciate the history, culture, and value of the contributions made by individuals and groups of people from diverse populations.

### Structure of the Requirement

All students entering the college in fall 1991 or later are required to take courses that address these issues. One three-credit course in each area (Global Issues and Diversity) is required for graduation. Courses to fulfill this requirement can be applied to the major. Courses may be transferred from other colleges if approved by the transfer coordinator in the Admissions Office.

Courses that currently satisfy these requirements are listed below. They are identified in the master schedule course listing and on student grade and intent labels, with a "G" for Global, or a "D" for Diversity.

### Courses that may be used to satisfy the three-credit Global Issues requirement:

#### Applied Science and Education

BUS 300	International Business
CRJ 307	Comparative Criminal Justice Systems
NFS 105	Food and People: Interactions and Issues
TEC 200	Total Quality Management

#### Arts and Humanities

COM 310	International Communication
ENG 345	World Literature After 1945
FRE 341	Francophone Literature in Translation
MUS 208	Survey of World Music Cultures
MUS 340	Ethnomusicology I
PHI 303	Women and Religion
PHI 321	World Religions
SPA 300	The Civilization of Latin America
SPA 309	The Civilization of Latin America

#### Natural and Social Sciences

ANT 101	Understanding Culture
ANT 301	Indigenous Peoples of Eastern North America
ANT 303	The Anthropology of Europe
ANT 305	Peoples of Africa
ANT 327	Introduction to Medical Anthropology
ANT 330	The Anthropology of Oceania
ANT 340	Women in Anthropological Perspective
ANT 367	Culture and Ecology
ANT 370	The Anthropology of Contemporary Issues

ANT 380	Language and Culture
ANT 384	Culture, Social Control, and Law
ANT 411	African Systems of Kinship and Marriage
BIO 104	Environmental Biology
CHE 315	Environmental Chemistry
ECO 401	International Economics
ECO 403	Comparative Economic Systems
ECO 404	Economic Development
GEG 101	World Natural Environments
GEG 102	Man's Cultural Environment
GEG 200	Introduction to Regional Geography
GEG 307	Conservation and Environmental Management
GEG 322	Geography of World Hunger
GEG 353	Geography of the Former Soviet Union
GEG 360	Geography of Asia
GEG 361	Geography of Africa
GEG 363	Geography of Middle America
GEG 364	Geography of Europe
GES 315	Marine Environments
HIS 155	World War II
HIS 204	Global History of the Twentieth Century
HIS 210	History of Modern Asia
HIS 211	History of Modern Africa Since 1919
HIS 306	History of Africa to 1919
HIS 314	Modern Latin America
HIS 320	Modern History of Japan and Korea
PSC 230	International Relations
PSC 309	Politics of International Business
PSC 335	International Relations of the Middle East
PSC 340	Politics of Developing Countries
PSC 368	Comparative Public Administration

SCI 231	Pollution, the Environment, and Society
SCI 232	Energy, the Environment, and Society
SOC 430	Sociology of International Development and Underdevelopment

### Courses that may be used to satisfy the three-credit Diversity requirement:

#### Applied Science and Education

CRJ 425	Race and the Administration of Justice
CRJ 430	Gender and the Administration of Justice
EXE 100	Nature and Needs of Individuals With Special Needs
NFS 100	Multicultural Foods
SWK 319	Dynamics of Poverty

#### Arts and Humanities

AED 365	Seminar in Feminist Art and Criticism
ATS 325	Arts and Special Needs
COM 333	Minority Voices and the Media
DAN 230	Survey of African-American Dance
DAN 234	History of the Black Dance Movement
ENG 240	African-American Literature to 1940
ENG 241	African-American Literature Since 1940
ENG 354	Ethnic-American Minority Literature
MUS 206	Jazz and Rock Foundations
MUS 305/305W	Modern Jazz
MUS 306/306W	Urban Blues and Rock

#### Natural and Social Sciences

ANT 144	Introduction to Folklore and Folklife
ECO 302	Women in the Economy
ECO 312	Urban Economics
GEG 309	Introduction to Urban Geography
GEG 357	Geography of Buffalo and the Niagara Frontier
HEW 319	Sociology of Sport
HIS 302	History of Women in America
HIS 322	African-American History
HIS 341	African-Americans and Civil Rights
HIS 468	Readings in African-American History
HIS 469	Black Protest and Leadership in the United States in the Twentieth Century
PSC 218	African-American Political Culture
PSC 225	Women in American Politics
PSC 316	Urban Ethnic Politics
PSC 319	Lesbian and Gay Citizenship Politics in the United States
PSC 375	Race/Sex/Politics of Myth and Story
PSY 387	Psychology of Gender Differences
SOC 240	Analyzing Social Problems
SOC 310	Sociology of Sex Roles
SOC 312	Women in Society
SOC 321	The African-American Family
SOC 333	Social Movements
SOC 350	Power, Class, and Inequality
SOC 351	Sociology of Race and Ethnicity
SST 350	The Traditions of the People of the Longhouse (The Ho De No Sau Nee)

## Course Coding System

All courses carrying general education credit, as well as courses which satisfy the global and diversity requirements, are designated in the master schedule and on student grade labels in the advisement code column in accordance with the following system:

The first space in the advisement code indicates global or diversity status:

**D** = Diversity

**G** = Global

The middle space in the advisement code designates general education status:

**C** = General Education Course

The third space indicates the appropriate general education area:

**T** = applied science and technology

**A** = arts

**H** = humanities

**M** = math/science

**S** = social science



## Additional Guidelines and Requirements

### Basic Mathematics Competency Requirement

The college requires all matriculated students to demonstrate college-level skills in basic mathematics. The requirement may be satisfied as follows:

**Freshmen:** Entering freshmen must take the mathematics competence examination given during orientation and at the end of each semester. On the basis of this examination, each student will be placed at one of three levels:

1. MAT 097 recommended; or retest
2. MAT 098 recommended; or retest
3. Basic mathematics competency requirement satisfied

When the student has achieved a satisfactory level of competence, the Academic Skills Center will notify the registrar.

Every entering freshman who does not pass the competence examination by the end of the first semester must register for (an) appropriate course(s) until the requirement has been satisfied. Only MAT 097 and MAT 098 can be taken to fulfill the basic mathematics competency requirement. No other math

courses may be taken at the college until the competency requirement has been satisfied. The basic mathematics competency requirement must be completed no later than the end of the sophomore year.

**Transfer Students:** Transfer students will complete the basic mathematics competency requirement in one of the following ways:

1. If no credit-bearing mathematics courses are transferred, the student must follow the procedures outlined for freshmen.

2. If a credit-bearing mathematics course equivalent to MAT 097 or above is transferred, the basic mathematics competency requirement is satisfied.

Transfer students must complete the requirement within the first 45 semester hours at the college.

Registration for MAT 097 and MAT 098 may only occur following recommendation on the basis of the competency examination test results.

Admission to take the examination requires proper photo identification (student ID or driver's license).

MAT 097 and MAT 098 are noncredit courses and may not be applied to any degree requirements. The courses will be graded on an "S" or "U" basis. Course challenges of MAT 097 and MAT 098 will not be permitted.

### Department (Major) Requirement

A major consists of no fewer than 24 credits and no more than 42 credits in a particular field of study. Each department sets its own requirements. To receive a degree in a particular major, students must complete at least six credits in their major at this college. Courses and sequences of a major are determined by individual departments with the approval of the College Senate, Academic Affairs Office, and the president.

### Major Courses

Students may not use courses required by their major or courses from their major discipline to satisfy any part of the general education requirement.

### Dual Majors and Minors

Courses selected to satisfy the general education requirement may be used to fulfill any part of the requirements of a second major or a minor.

### Electives

The number of unrestricted elective courses varies according to the individual program. These courses are needed to make up the 123 credits required for graduation. Check the individual program requirements to determine the number of electives allowed. These courses are taken in addition to general education, departmental, and foreign language credits.

### English Composition Policy for International Students

International students registering at Buffalo State are:

1. Required to take the English composition competence exam;
2. Required to register for the appropriate English course(s);
3. Required to complete the English composition requirement prior to declaring a major. Information on these requirements is available through the International Student Affairs Office, Campbell Student Union 400. Individual and group instruction in English as a second language is available through the Academic Skills Center, South Wing 230.



### English Composition Requirement

The college requires all matriculated students to demonstrate college-level skills in English composition.

**Freshmen:** Entering freshmen must take the English composition competence examination. The examination will be given during orientation and during each semester. Students earning an Advanced Placement score of three or higher in expository writing are excused from the requirement.

On the basis of the competence examination, students will be placed at one of four levels:

1. ENG 099 required;
2. ENG 101 required;
3. ENG 102 required;
4. English composition requirement satisfied. The department will notify the registrar that the student has met this all college requirement.

Each student will take the competence examination again after completing each course. If the examination shows that the student has an improved performance level, the department will advance the student in the sequence. When the student has achieved a satisfactory level of competence, the department will notify the registrar.

Every entering freshman who does not pass the competence examination by the end of the first semester must register for (an) appropriate course(s) until the requirement has been satisfied. The basic composition requirement must be completed by the end of the sophomore year.

#### *Transfer Students:*

1. If two composition courses equivalent to ENG 101 and ENG 102 are transferred, the English composition requirement is satisfied;
2. If one composition course equivalent to ENG 101 is transferred, the student must complete ENG 102, College Writing II;
3. If no composition courses are transferred, the student must take the competence examination and follow the requirement stated for freshmen.

Transfer students must complete the English composition requirement within their first 45 semester hours at this college.

**Credit for English Composition Courses:** Registration for courses in this sequence may only occur following placement by the English Department on the basis of the competence examination.

Students will successfully complete a composition course by completing all the requirements of the course and passing the competence examination at the appropriate level. Retaking the competence examination at the end of each course is required.

ENG 101 and ENG 102 or equivalents may be used as All College elective credit. ENG 099 is a noncredit course and may not be used to meet any degree requirements. ENG 099, ENG 101, and ENG 102 will be graded on an "S" or "U" basis. Course challenges will not be permitted. Students who are considering taking a course at another institution must seek prior permission from the director of academic standards.

### Foreign Language Requirement

All students in B.A. degree programs must demonstrate proficiency in a single foreign language equivalent to the successful completion of the first two years of college-level study (101-202 level). Courses taken to satisfy the language requirement may be applied to the following sections of the B.A. degree audit sheet: humanities (maximum of two courses), and all college electives.

Students who have successfully completed foreign language study on the high-school level may register for the appropriate course or take a placement examination administered by the Foreign Language Department. Normally, one year of high school study is equivalent to one semester of college-level work. Successful completion of one language through the fourth year in high school satisfies the requirement. Transfer students may apply language courses successfully completed at other institutions in fulfillment of the requirement. Foreign language courses currently numbered 201-202 shall carry upper-division credit, i.e., they may be applied toward fulfillment of the 45-credit upper-division requirement. For further information regarding placement or any aspect of the requirement, contact the Foreign Language Department, Bishop Hall 126, 878-5414.

### Physical Education Requirement

The physical education requirement is eliminated and does not apply to current or new students entering in fall 1999.

### Upper-Division Course Requirement

All students must complete a minimum of 45 credits of upper-division coursework (300-400- level) to be eligible for graduation. An exception is made for foreign language courses (see foreign language requirement). Specific information can be obtained through the appropriate major departments.

### Writing Intensive Requirement

Writing represents a critical component of the educational process and the integration of writing into all types of courses across the curriculum is widely encouraged. In particular, the college has established a six credit writing intensive requirement for all students to enhance and reinforce basic writing skills learned in ENG 101-ENG 102. This six-credit requirement may be satisfied by taking two writing intensive ("W") courses.

Like many courses offered on this campus, "W" courses include both formal and informal writing. Writing intensive courses, however, emphasize writing as a major course component for both instruction and evaluation. Instructors employ writing-to-learn techniques as a major way of teaching. In such courses, students learn to use writing as a tool which can be used in all their learning processes. A significant portion of the coursework and subsequently grades in these "W" courses will be allocated on the basis of the student's writing performance.

Every piece of formal writing submitted as part of the requirement should meet the following minimum standards, as appropriate to the course and to the nature of the assignment: clearly stated purpose/main idea/thesis; adequate support/proof/development of main idea; clear and logical organization of information; complete sentences; standard usage of grammar, punctuation, and spelling; correct documentation (interior documentation, works cited, and/or bibliography) when required, in a format appropriate to the field; evidence of critical thinking.

Some departments are establishing an alternate method whereby their majors may satisfy the "W" requirement. Students will be apprised of such alternates as they become available.

Satisfactory completion of ENG 102 is a prerequisite for all courses used in fulfillment of the writing intensive requirement.

The "W" courses must be completed at Buffalo State and are not transferable from other institutions.

### The General Education Requirement for Bachelor of Technology Degrees

All B.Tech. candidates must complete 24 credit hours of general education courses (see pages 53-56), with six credit hours in the arts/humanities, nine credit hours in written/oral communications, and nine credit hours in social sciences. In addition, students must complete nine credit hours in mathematics, six credit hours in physics, and three credit hours in computer sciences, as well as 18 credit hours of technical sciences courses. See specific program descriptions for more detailed information.

### The General Education Requirement for Bachelor of Fine Arts Degrees

All B.E.A. candidates must complete 36 credit hours of general education courses (see pages 53-56), with nine credit hours each from the arts, humanities, the social sciences, and math/science. In addition, students may choose 13 credit hours of free electives. The 123 credit hours required for graduation is the same for all degree candidates. See specific program descriptions for more detailed information.

### Academic Minors

An academic minor is an optional study program available to undergraduate students. A minor may be used to complement the major course of study, broaden and enhance career opportunities, gain expertise in an area of interdisciplinary studies, or provide in-depth study in a subject of special interest. Buffalo State minors are specially conceived sequences of courses designed to fulfill these general goals.

Each minor program consists of 18-21 credits of coursework. A 2.0 cumulative grade point average (GPA) is required for admission to a minor program and at least three of the courses in each minor must be completed at the college. Students may not elect a minor from the same discipline as their major program. Students who complete the minor with a 2.0 GPA will have the minor recorded on their official transcript.

Only matriculated students who intend to seek an undergraduate degree may be accepted into a minor program. A minor may only be earned simultaneously with a major completed for a degree.

Students interested in selecting a minor program should contact the coordinating department as soon as possible and complete a "declaration of minor form." A listing of all minors and requirements is on file in each departmental and dean's office as well as in the Academic Advisement Office, South Wing 120. Advisement on individual minors is provided only by the coordinating department.

**For a list of minors, please refer to the charts on pages 61-63.**





HISTORY OF THE COLLEGE

1867 Legislature created the Normal School at Buffalo

1871 Henry B. Buckham appointed principal; school opened with three departments: normal, collegiate, scientific

1873 First graduating class: 23 graduates

1886 James M. Cassety appointed principal

1895 Three-year primary and kindergarten course initiated

1906 Manual Arts Department established

1909 Daniel Upton appointed principal

1910 Household Arts Department established

1915 Edward H. Butler Jr. succeeded Edward H. Butler as president of Local Board

1919 Harry W. Rockwell appointed principal

1919 Home Economics Program became four-year course leading to bachelor of science in home economics

1920 Manual Arts Department changed to Industrial Arts Department

1925 Normal course became four-year program leading to bachelor of science in education

1928 Name changed to New York State College for Teachers; principal changed to president; accredited by American Association of Teachers Colleges

1930 Art Education Department established

1931 Moved to present campus

1939 Accredited by American Association of University Women

1944 Exceptional Children Education Division established

1945 Master of science in education degree authorized

1948 State University of New York established; college accredited by Middle States Association of Colleges and Secondary Schools

1951 President Harry W. Rockwell retired; Dean Ralph Horn became acting president; Harvey M. Rice appointed president

1958 President Harvey M. Rice resigned; Dean Ralph Horn became acting president; approval of secondary teacher education curricula in mathematics and science

1959 Mrs. Bruce E. Wallis (formerly Kate Butler Righter) appointed chair of Local Council

1959 Dean Ralph Horn, acting president, retired; Paul G. Bulger appointed president

1959 Name changed to State University College of Education at Buffalo

1961 Name changed to State University College at Buffalo

1962 Approval of secondary teacher education curriculum in social studies; college accredited by National Council for Accreditation of Teacher Education

1963 Approval of liberal arts degree program

1963 Mrs. Bruce E. Wallis (formerly Kate Butler Righter) reappointed chair of Local Council

1964 Approval of secondary teacher education curriculum in foreign language and vocational technical baccalaureate curriculum

1966 Approval of bachelor of science curriculum with major in home economics

1967 President Paul G. Bulger resigned; Dr. Houston T. Robison, vice president for academic affairs, became acting president; E.K. Fretwell Jr. appointed president; master of arts degree authorized with major in English and mathematics; SEEK/Educational Opportunity Program established

1968 Master of arts degree with major in history authorized; approval of bachelor of science curriculum with major in industrial technology; Chemistry Department accredited by American Chemical Society

1969 Master of arts degree with majors in chemistry, biology, and philosophy authorized

1970 Bachelor of technology and master of science in student personnel administration degrees authorized

1971 Bachelor of fine arts degree authorized; centennial year

1972 Accreditation renewed by Middle States Association of Colleges and Secondary Schools; accreditation of teacher education programs renewed by National Council for Accreditation of Teacher Education

1975 Master of science in creative studies authorized

1977 Master of science in criminal justice and clinical dietetics authorized

1978 Bachelor of science in special studies authorized; President E.K. Fretwell Jr., resigned; master of arts and master of science in multidisciplinary studies authorized

1979 Dr. Barbara R. Frey, vice president for academic affairs, became acting president; Dr. D. Bruce Johnstone appointed president

1980 Bachelor of science in business studies authorized; bachelor of science in business education authorized; bachelor of arts in special studies authorized; bachelor of science in general studies authorized

1981 Accreditation of teacher education programs renewed by National Council for Accreditation of Teacher Education

1982 Accreditation renewed by Middle States Association of Colleges and Secondary Schools; Ross B. Kenzie appointed chair of College Council

1983 Engineering Technology Programs accredited by Accrediting Board for Engineering and Technology; acquisition of master's level Art Conservation Program from State University College at Oneonta

1984 Master of science degree in bilingual exceptional children education approved

1987 Master of science degree in industrial technology approved

1988 President D. Bruce Johnstone resigned; Dr. Richard A. Wiesen, vice president for academic affairs, became acting president

1988 Master of science in education degree in educational computing approved

1989 Dr. EC. Richardson appointed president

1991 Ross B. Kenzie redesignated chair of College Council

1992 Accreditation reaffirmed by Middle States Association of Colleges and Secondary Schools

1993 Bachelor of science degree in health and wellness approved

1996 President EC. Richardson resigned; Dr. Muriel A. Moore appointed president; celebration of college's 125th year

1997 Master of science in adult education degree approved

UNDERGRADUATE DEGREE PROGRAMS AND MINORS AT A GLANCE

Minors appear in shaded areas. Some minors are also available under major programs. An asterisk (\*) after program indicates that program is available as both a day and evening study degree program.

Program or Minor	Degree	HEGIS code	Buffalo State code	Program description on page:	Contact
African and African-American Studies	Minor program only; contact the Political Science Department				
Aging	Minor program only; contact the Psychology Department				
Anthropology <i>Honors option available. Minor program also available.</i>	B.A.	2202	0733	Page 65	<i>Anthropology Department</i>
Art	B.A.	1002	0105	Page 65	<i>Fine Arts Department</i>
Art Education (K-12)	B.S.	0831	0100	Page 65	<i>Art Education Department</i>
Art History <i>Minor program also available.</i>	B.A.	1003	0130	Page 66	<i>Fine Arts Department</i>
The Arts* <i>Honors option available.</i>	B.A.	1001	0110	Page 67	<i>Performing Arts Department</i>
Art Therapy	Minor program only; contact the Art Education Department				
Astronomy	Minor program only; contact the Earth Sciences and Science Education Department				
Biology <i>Honors option available. Minor program also available.</i>	B.A.	0401	0725	Page 67	<i>Biology Department</i>
Biology Education (7-12)	B.S.	0401.01	0631	Page 67	<i>Biology Department</i>
Broadcasting* <i>Honors option available.</i>	B.A.	0603	0707	Page 68	<i>Communication Department</i>
Business and Distributive Education	B.S.	0838.01	0406	Page 68	<i>Business Department</i>
Business Education	B.S.	0838	0404	Page 69	<i>Business Department</i>
Business Studies*	B.S.	4999	0430	Page 69	<i>Business Department</i>
Canadian Studies	Minor program only; contact the History and Social Studies Education Department				
Chemistry <i>Minor program also available.</i>	B.A.	1905	0726	Page 69	<i>Chemistry Department</i>
Chemistry Education (7-12)	B.S.	1905.01	0632	Page 70	<i>Chemistry Department</i>
Coaching	Minor program only; contact the Health and Wellness Department				
Communication <i>Honors option available.</i>	B.A.	0699	0706	Page 70	<i>Communication Department</i>
Computer Information Systems* <i>Minor program also available.</i>	B.S.	0702	0825	Page 71	<i>Computer Information Systems Department</i>
Creative Studies	Minor program only; contact the Center for Studies in Creativity				
Criminal Justice* <i>Honors option available. Minor program also available.</i>	B.S.	2105	0771	Page 71	<i>Criminal Justice Department</i>
Dance	Minor program only; contact the Performing Arts Department				
Design <i>Minor programs also available in ceramics, fiber, furniture, jewelry.</i>	B.F.A.	1009	0180	Page 72	<i>Design Department</i>
	B.S.	1009	0175	Page 73	
Deviance	Minor program only; contact the Sociology Department				
Dietetics: Coordinated Program	B.S.	1306	0410	Page 74	<i>Nutrition, Hospitality, and Fashion Department</i>
Dietetics: Didactic Program	B.S.	1306	0410	Page 75	
Earth Sciences <i>Honors option available.</i>	B.S.	1917	0737	Page 75	<i>Earth Sciences and Science Education Department</i>
Earth Science Education (7-12)	B.S. (Earth Sciences)	1917.01	0633	Page 76	<i>Earth Sciences and Science Education Department</i>
	B.A. (Geology)	1917.01	0633		
Economics	B.A.	2204	0704	Page 77	<i>Economics and Finance Department</i>
<i>Honors option for B.A. program available.</i>	B.S.	2204	0702	Page 77	



UNDERGRADUATE DEGREE PROGRAMS AND MINORS AT A GLANCE

Minors appear in shaded areas. Some minors are also available under major programs.  
An asterisk (\*) after program indicates that program is available as both a day and evening study degree program.

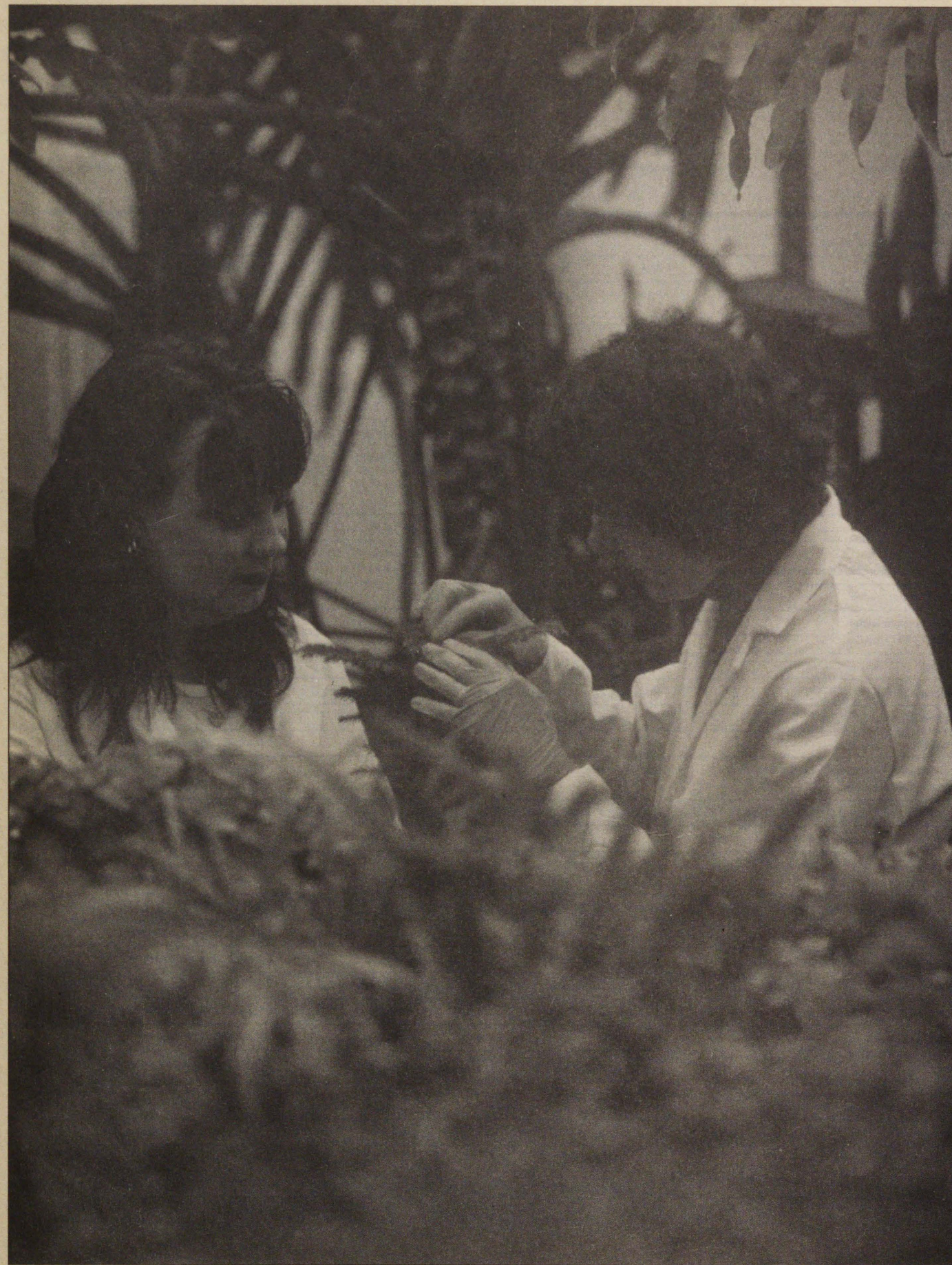
Program or Minor	Degree	HEGIS code	Buffalo State code	Program description on page:	Contact
Electrical Engineering Technology	B.Tech.	0925	0820	Page 78	Technology Department
Electronics*	B.Tech.	0925	0820	Page 78	
Elementary Education (Pre-K-6)	B.S.	0802	0200	Page 79	Elementary Education and Reading Department
(Extended Certification 7-9)	B.S.	0804.01-.07			
English	B.A.	1501	0705	Page 79	English Department
Minor program also available.					
English Education (7-12)	B.S.	1501.01	0610	Page 80	English Department
Environmental Science	Minor program only; contact the Earth Sciences and Science Education Department				
Exceptional Education					Exceptional Education Department
Single Certification Program (Special Education)	B.S.	0808	0300	Page 81	
Dual Certification Program					
(Teachers of Special Education and Elementary Education)	B.S.	0808	0299	Page 81	
Minor program also available.					
Exceptionality	Minor program only; contact the Exceptional Education Department				
Fashion Design	Minor program only; contact the Nutrition, Hospitality, and Fashion Department				
Fashion and Textile Technology	B.S.	1303	0401	Page 81	Nutrition, Hospitality, and Fashion Department
Forensic Chemistry	B.S.	1999.20	0773	Page 82	Chemistry Department
French	Minor program only; contact the Foreign Language Department				
French Education (7-12)	B.S.	1102.01	0651	Page 83	Foreign Language Department
French Language and Literature	B.A.	1102	0709	Page 83	Foreign Language Department
General Studies*	B.S.	4901	0556	Page 83	General Studies Interdisciplinary Unit
Geography	B.A.	2206	0715	Page 84	Geography and Planning Department
Minor program also available.					
Geology	B.A.	1914	0727	Page 84	Earth Sciences and Science Education Department
Honors option available. Minor program also available.					
German	Minor program only; contact the Foreign Language Department				
Health and Wellness	B.S.	0837	0739	Page 85	Health and Wellness Department
History	B.A.	2205	0716	Page 85	History and Social Studies Education Department
Honors option available. Minor program also available.					
Hospitality Administration	B.S.	1307	0437	Page 85	Nutrition, Hospitality, and Fashion Department
Minor program also available.					
Humanities*	B.A.	4903	0717	Page 86	Dean, Faculty of Arts and Humanities
Industrial Technology*	B.S.	0925	0810	Page 86	Technology Department
Italian	Minor program only; contact the Foreign Language Department				
Journalism	B.A.	0602	0708	Page 87	Communication Department
Honors option available.					
Management Economics	Minor program only; contact the Economics and Finance Department				
Mathematics	B.A.	1701	0718	Page 87	Mathematics Department
Minor program also available.	B.S.	1701	0719	Page 88	
Mathematics Education (7-12)	B.S.	1701.01	0721	Page 88	Mathematics Department
Mechanical Engineering Technology*	B.Tech.	0925	0820	Page 89	Technology Department
Medieval Studies	Minor program only; contact the History and Social Studies Education Department				
Meteorology	Minor program only; contact the Earth Sciences and Science Education and the Geography and Planning Departments				

UNDERGRADUATE DEGREE PROGRAMS AND MINORS AT A GLANCE

Minors appear in shaded areas. Some minors are also available under major programs.  
An asterisk (\*) after program indicates that program is available as both a day and evening study degree program.

Program or Minor	Degree	HEGIS code	Buffalo State code	Program description on page:	Contact
Music	B.A.	1005	0125	Page 89	Performing Arts Department
Minor program also available.					
Painting	B.F.A.	1002	0155	Page 90	Fine Arts Department
Philosophy	B.A.	1509	0720	Page 90	Philosophy and Religious Studies Department
Honors option available.					
Photography	B.F.A.	1011	0160	Page 91	Fine Arts Department
Physics	B.A.	1902	0728	Page 91	Physics Department
Honors option available. Minor program also available.	B.S.	1902	0778	Page 91	
Physics Education (7-12)	B.S.	1902.01	0634	Page 92	Physics Department
Planning	Minor program only; contact the Geography and Planning Department				
Polish, Russian, and East European Studies	Minor program only; contact the History and Social Studies Education Department				
Political Science	B.A.	2207	0722	Page 92	Political Science Department
Minor program also available.					
Printmaking	B.F.A.	1009	0165	Page 93	Fine Arts Department
Psychology	B.A.	2001	0723	Page 94	Psychology Department
Honors option available. Minor program also available.	B.S.	2001	0724	Page 94	
Public Administration	Minor program only; contact the Political Science Department				
Public Communication	B.A.	0699	0703	Page 95	Communication Department
Honors option available.					
Quality	Minor program only; contact the Technology Department				
Religious Studies	Minor program only; contact the Philosophy and Religious Studies Department				
Safety Studies	Minor program only; contact the Technology Department				
Sculpture	B.F.A.	1002	0170	Page 95	Fine Arts Department
Social Studies Education (7-12, 5-6 Extension)	B.S.	2201.01	0640	Page 96	History and Social Studies Education Department
Honors option available.					
Social Welfare	Minor program only; contact the Social Work Department				
Social Work*	B.S.	2104	0435	Page 96	Social Work Department
Sociology	B.A.	2208	0730	Page 97	Sociology Department
Minor program also available.	B.S.	2208	0732	Page 97	
Spanish	Minor program only; contact the Foreign Language Department				
Spanish Education (7-12)	B.S.	1105.01	0656	Page 98	Foreign Language Department
Spanish Language and Literature	B.A.	1105	0714	Page 98	Foreign Language Department
Speech	Minor program only; contact the Communication Department				
Speech Language Pathology	B.S.	1220	0325	Page 98	Speech Language Pathology Department
Technology Education	B.S.	0839.01	0500	Page 99	Technology Department
Theater	B.A.	1506	0115	Page 99	Performing Arts Department
Minor program also available.					
Urban-Regional Analysis and Planning*	B.S.	2214	0738	Page 100	Geography and Planning Department
Urban Studies	Minor program only; contact the Political Science Department				
Vocational Technical Education	B.S.	0839.03	0800	Page 100	Educational Foundations Department
Women's Studies	Minor program only; contact the Women's Studies Interdisciplinary Unit				
Writing	Minor program only; contact the English Department				





## ANTHROPOLOGY

(0733)

### Anthropology Department Bachelor of Arts (HEGIS 2202)

*Jill Nash, Chair*  
Classroom Building B107 (716) 878-6110

The study of anthropology provides a broad-based approach to the understanding of human culture and human biology. The anthropological perspective is worldwide, holistic, and involves considerable time-depth. The major exposes students to the primary subdivisions within the field: physical anthropology, ethnology, archeology, linguistics, and folklore.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements .....42 cr  
Total Required Credits in Anthropology .....33 cr

#### A. Required Courses (12 cr)

ANT 100	Human Origins
ANT 101	Understanding Culture
ANT 315	Research Methods
ANT 405	History of Anthropological Thought

#### B. Electives (15 cr)

One course from each of the following areas (selected by advisement):

##### Archeology (3 cr)

ANT 308	Archeological Method
ANT 312	Archeology of North America
ANT 329	World Prehistory
ANT 377	Ancient Civilization
ANT 415	Seminar in Archeology

##### Physical Anthropology (3 cr)

ANT 203	Human Variation
ANT 320	Human Growth in Anthropological Perspective
ANT 321	Primate Behavior
ANT 324	The Human Skeleton
ANT 325	Skeletal Investigations
ANT 326	The Human Fossil Record

##### Regional Courses (3 cr)

ANT 301	Indigenous Peoples of Eastern North America
ANT 303	The Anthropology of Europe
ANT 305	Peoples of Africa
ANT 330	The Anthropology of Oceania

##### Topical Courses (3 cr)

ANT 144	Introduction to Folklore and Folklife
ANT 307	Urban Anthropology
ANT 327	Medical Anthropology
ANT 340	Women in Anthropological Perspective
ANT 360	Folklore of Women
ANT 362	Urban Folklore
ANT 365	Practicing Anthropology
ANT 370	The Anthropology of Contemporary Issues
ANT 380	Language and Culture
ANT 381	Religion, Myth and Magic
ANT 382	Culture and Personality
ANT 384	Culture, Social Control, and Law
ANT 411	African Systems of Kinship and Marriage
ANT 412	Seminar in Anthropology
SOC/ANT 430	Sociology of International Underdevelopment

Note: ANT 389 - Topics in Anthropology may be used to fill one or more of the elective requirements according to content in any given semester. Please contact your adviser to determine the appropriate designation.

#### Experiential Courses (3 cr)

ANT 308	Archeological Method
ANT 488	Internship
ANT 495	Project
ANT 499	Independent Study

Note: Consult department for additional options

#### C. Two Other Courses, from any area, under advisement (6 cr)

Total Required Credit Hours Outside of Major .....0-12 cr

The B.A. degree requirement includes a foreign language component of four three-credit courses. Students who have successfully completed foreign language courses at the high school level may be exempt. In general, one full year of foreign languages at the high school level is equivalent to a one-semester course at the college level.

All College Electives .....36-48 cr  
Total Required Credits .....123 cr

## ART

(0105)

### Fine Arts Department Bachelor of Arts (HEGIS 1002)

*Sylvia D. Bakos, Chair*  
Upton Hall 502 (716) 878-6014

The Art Program provides the student the opportunity to study a wide variety of visual arts media. Together with basic instruction in drawing, design, and art history, students, under advisement, choose 21 credits in electives in fine arts and/or design.

The Fine Arts Department reserves the right to retain art work for official purposes such as exhibits, catalogs, or teaching aids.

Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class.

General Education Requirements .....42 cr  
Total Required Credits in Art .....39 cr

#### A. Required Courses (18 cr)

FAR 101	Drawing I
FAR 102	Drawing II
DES 101	Introductory Design 2D1
DES 103	Introductory Design 3D1
FAR 250	Art History I
FAR 251	Art History II

#### B. Electives in Fine Arts and/or Design (21 cr)

Foreign Language Requirement .....0-12 cr  
All College Electives .....28-40 cr  
Total Required Credits .....123 cr

## ART EDUCATION (K-12)

(0100)

### Art Education Department Bachelor of Science (HEGIS 0831) National Council for Accreditation of Teacher Education (NCATE) Accredited

*Michael E. Parks, Chair*  
Bishop Hall 103 (716) 878-4106

The Art Education Program prepares students for provisional certification to teach kindergarten through 12th grade art in New York State schools. The program develops art education professionals who are



## ART EDUCATION (K-12) (CONTINUED)

knowledgeable about the subject of art; who think systematically about the act of teaching; who are committed to teaching students about art in meaningful and critical ways; who consider teaching to be a dynamic and continuing process of development and growth; who recognize and respect individual differences in their students and adapt their teaching strategies to fit individual student needs; who are sensitive to issues related to diversity in class, ethnicity, and gender in contemporary society; who are active in the professional, cultural, and art communities; who understand and are prepared to utilize current technology and media in the public school art programs; who understand and promote the value of art in contemporary cultures; and who are prepared to address the unique learning needs of K-12 students in an urban environment.

**Note: New York State Teacher Certification requirements are changing. Please call the department for specific requirements.**

**Requirements of Major:** For students to enroll and remain in the Art Education Program, they must maintain a cumulative GPA of at least 2.5, and at least a 3.0 GPA in their primary major. Students are expected to assume the costs of materials they use in art education courses and there may be an additional instructional charge for materials used in class.

**Student Teaching:** Eligibility for student teaching is determined by the Art Education Department; placement is arranged by the Art Education Coordinator of Student Teaching.

Student teaching experiences are provided in cooperating elementary and secondary schools. In some cases students may be required to reside in the community where their student teaching assignments take place; transportation to/from the student teaching assignment is the student's responsibility. Students enrolled in the student teaching semester devote full time to their practicum assignment.

Prior written approval must be obtained from the chair of the Art Education Department for a student to enroll for any other college credit work during a student teaching assignment except for AED 400. All students anticipating a student teaching assignment must show proof of having a test for TB within three months of the assignment. Results of the test must be filed at the Health Center.

**Transfer Students:** Students transferring to the art education major as juniors, and who wish to complete their programs in four semesters, should plan their schedules of coursework in art education with great care and with an academic adviser. It is important to note that AED 300, AED 301, and AED 302 are intended as a sequence and may not be taken concurrently except for students in Certification Only or Articulation Agreement programs.

**Certification Only Program:** This program is designed for students who have already earned a B.A./B.F.A. degree in a studio area and are interested in earning Art Teacher certification.

General Education Requirements ..... 42 cr

Total Required Credits in Art Education ..... 36 cr

### A. Required Courses (24 cr)

AED 198	Computer Applications for Art Educators
AED 200	Fundamentals of Art Inquiry
AED 300W	Foundations in Art Education
AED 301W	Theoretical Constructs in Art Education
AED 302W	Functions and Practices in Art Education
AED 315	Arts in Living
ATS 325	Art and Special Needs
AED 400	Student Teaching Seminar

### B. Electives By Advisement

AED 310	Art Materials Exploration for Group Activities
ATS 320	Introduction to Art Therapy
AED 488	Internship
AED 495	Project

### C. Required Field Experience (12 cr)

AED 303	Elementary Student Teaching in Art
AED 304	Secondary Student Teaching in Art

Total Required Credits in Fine Arts and Design ..... 36 cr

### A. Required Courses in Fine Arts (12 cr)

FAR 101	Drawing I
FAR 102	Drawing II
FAR 250	Art History I
FAR 251	Art History II

### B. Required Courses in Design (12 cr)

DES 101	Introductory Design 2D I
DES 103	Introductory Design 3D I
Two electives selected by advisement	

### C. Studio Electives Selected by Advisement (12 cr)

All College Electives ..... 9 cr

Total Required Credits ..... 123 cr

## ART HISTORY

(0130)

### Fine Arts Department

#### Bachelor of Arts (HEGIS 1003)

*Sylvia D. Bakos, Chair*

Upton Hall 502 (716) 878-6014

The program in art history is designed to introduce students to the nature and history of artistic development in the western world. This program is conceived as one of the disciplines of the liberal arts and is envisioned as a preparation for graduate study in art history, as well as for careers in art librarianship, museum work, slide curatorship, historic preservation, and art conservation.

General Education Requirements ..... 42 cr

Total Required Credits in Art History ..... 30 cr

### A. Required Courses (15 cr)

FAR 250	Art History I
FAR 251	Art History II
FAR 354	Greek Art
FAR 357	Gothic Art
FAR 359	High Renaissance and Mannerism

### B. Electives in Art History (15 cr)

FAR 355	Etruscan and Roman Art
FAR 356	Early Medieval Art
FAR 358	Early Renaissance Art in Italy
FAR 360	Late Gothic and Renaissance Art
FAR 361	Italian Baroque Art
FAR 362	Nineteenth-Century Art
FAR 363	Twentieth-Century Art
FAR 365	American Art
FAR 367	Baroque of Northern Europe
FAR 368	Ottoman and Romanesque Art
FAR 372	Masterworks of Architecture

Foreign Language Requirement ..... 0-12 cr

All College Electives ..... 37-49 cr

Total Required Credits ..... 123 cr

## THE ARTS\*

(0110)

### Performing Arts Department

#### Bachelor of Arts (HEGIS 1001)

*Donna E. McCarthy, Chair*

Rockwell Hall 203 (716) 878-6401

The Arts Program is an individually designed series of major courses that emphasize the performing arts and prepare students for graduate study. Students with interests, career goals, and talents that embrace an inter-arts approach work closely with a faculty mentor. Fields such as dance, choreography, pop music and culture, arts criticism, arts management, arts therapy, technical theater, and music theater demand a multidisciplinary approach. Presentations of musicals, plays, dance, concerts, and choral ensembles support the music theater emphasis.

The honors option is highly recommended for interdisciplinary studies. Students should contact the department for information. Nineteen- to 21-credit minor programs in dance, music, and theater enhance other major programs.

\* Also available through evening study

General Education Requirements ..... 42 cr

Total Required Credits in The Arts ..... 36 cr

### A. Required Courses (15 cr)

Three credits in each of the following:

Dance
Design
Fine Arts
Music
Theater

### B. Electives (21 cr)

Selected by advisement. At least six credits each from three of the above areas.

Foreign Language Requirement ..... 0-12 cr

All College Electives ..... 33-45 cr

Total Required Credits ..... 123 cr

## BIOLOGY

(0725)

### Biology Department

#### Bachelor of Arts (HEGIS 0401)

*Randal J. Snyder, Chair*

Science Building 314 (716) 878-5203

The program in the biological sciences prepares students for several options, including various employment opportunities at the bachelor's degree level, and entrance to graduate or professional schools.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements ..... 42 cr

Total Required Credits in Biology ..... 36 cr

### A. Required Courses (27 cr)

BIO 115	General Botany
BIO 116	General Zoology
BIO 214	Introduction to Cell Biology
BIO 303	Genetics
BIO 305	Molecular Biology
OR	
BIO 314	Advanced Cell Biology
OR	
BIO 402	Comparative Animal Physiology
OR	

BIO 408	Plant Physiology
BIO 315	Ecology
BIO 405	Organic Evolution

### B. Electives In Biology (9 cr)

Any upper-division courses in biology for which prerequisites are satisfied.

### C. Recommended Courses in Related Fields

CHE 111-CHE 112 and CHE 201-CHE 202
MAT 161
PHY 111-PHY 112

Foreign Language Requirement ..... 0-12 cr

All College Electives ..... 33-45 cr

Total Required Credits ..... 123 cr

## BIOLOGY EDUCATION (7-12)

(0631)

### Biology Department

#### Bachelor of Science (HEGIS 0401.01)

#### National Council for Accreditation of Teacher Education

#### (NCATE) Accredited

*Randal J. Snyder, Chair*

Science Building 314 (716) 878-5203

The secondary education program in biology prepares students to teach biology and general science at the secondary level (grades 7-12). Graduates of the program receive a B.S. in secondary education and provisional certification to teach in New York State public schools.

**Note: New York State Teacher Certification requirements are changing. Please call the department for specific requirements.**

General Education Requirements ..... 42 cr

Total Required Credits in Biology ..... 30 cr

### A. Required Courses (27 cr)

BIO 115	General Botany
BIO 116	General Zoology
BIO 214	Introduction to Cell Biology
BIO 303	Genetics
BIO 308-BIO 309	Human Anatomy and Physiology (with laboratory)

OR

BIO 402	Comparative Animal Physiology
BIO 315	Ecology
BIO 405	Organic Evolution

### B. Electives in Biology (3 cr)

Any upper-division course in biology for which prerequisites are satisfied.

Total Required Credits in Professional Education ..... 18 cr

SED 200	Field Experience: Secondary Education and Related Courses
EDF 303	Educational Psychology
EDF 403	Historical and Philosophical Forces Influencing Secondary Education
EDU 416	Teaching Reading in Secondary Schools
SED 308	Methods and Materials in Teaching Secondary Science
Professional Education Elective (SED 307 recommended)	

Total Required Credits in Student Teaching ..... 12 cr

SED 407	Practice Teaching Science in the Secondary School
SED 408	Practice Teaching Science in the Secondary School

Total Required Credits in Other Fields for Certification ..... 34-36 cr

One year of a foreign language
CHE 111 and CHE 112
PHY 111 and PHY 112
One year of earth science. One course must have a laboratory (GES 101, GES 103 recommended)
One semester of calculus (MAT 161 recommended) and one semester of statistics (BIO 406 recommended)

All College Electives ..... 15-17 cr

Total Required Credits ..... 123 cr



## BROADCASTING\*

(0707)

**Communication Department**  
**Bachelor of Arts (HEGIS 0603)**  
*Janet E. Ramsey, Chair*  
Bishop Hall 210 (716) 878-6008

The Broadcasting Program is a mix of practical experience and relevant theory. It is tied closely to the professional media community and emphasizes realistic and in-the-field broadcasting experience. Students select from three broadcasting concentrations: television production and management, radio production and management, and electronic journalism. Preparation for careers in television and radio broadcasting, cable, and allied fields is provided.

A departmental honors program is also available. Students should contact the department for additional information.

\*Also available through evening study

**General Education Requirements** .....42 cr  
**Total Required Credits in Broadcasting** ..... 39 cr

- A. Required Courses (27 cr)**
- |         |                                       |
|---------|---------------------------------------|
| COM 205 | Introduction to Oral Communication    |
| COM 210 | Introduction to Writing for the Media |
| COM 215 | Introduction to Visual Communication  |

Students must receive a 2.6 GPA in the above three courses to declare a major in broadcasting.

**Majors must complete all courses in one of the following concentrations:**

**Television Production and Management Concentration**

COM 304	Broadcast Copywriting
COM 317	Broadcast Programming and Management
COM 329	Beginning Television Production
COM 429	Advanced Television Production
COM 400	Communication Law
COM 450	Communication and Society <sup>1</sup>

**Radio Production and Management Concentration**

COM 304	Broadcast Copywriting
COM 317	Broadcast Programming and Management
COM 328	Beginning Radio Production
COM 428	Advanced Audio Production
COM 400	Communication Law
COM 450	Communication and Society <sup>1</sup>

**Electronic Journalism Concentration**

COM 337	Broadcast Newswriting
COM 338	Broadcast Field Reporting
COM 388	Broadcast Practicum
COM 415	Computer-Assisted Reporting
COM 400	Communication Law
COM 450	Communication and Society <sup>1</sup>

<sup>1</sup>COM 450 is required of all students choosing a major in the Communication Department. It must be taken after completion of 90 credits.

- B. Electives Selected by Advisement (12 cr)**  
Twelve credits selected from all 300- and 400-level courses in the Communication Department

**Foreign Language Requirement** ..... 0-12 cr

**All College Electives** ..... 30-42 cr

**Total Required Credits** ..... 123 cr

## BUSINESS AND DISTRIBUTIVE EDUCATION

(0406)

**Business Department**  
**Bachelor of Science (HEGIS 0838.01)**  
**National Council for Accreditation of Teacher Education (NCATE) Accredited**  
*Michael J. Littman, Chair*  
Chase Hall 302 (716) 878-4239

The program in occupational business and distributive education leads to provisional certification to teach business and distributive education subjects in New York State.

In this teaching field, applicants for a teaching certificate must also have an equivalent one year of occupation-related work experience, which they may obtain through the field experience courses as part of the business electives.

The occupational business and distributive education curriculum adheres to the guidelines published by the Council for Distributive Teacher Education.

**Admission Requirements:** Transfer students holding the A.A.S. degree in business are accepted into the major on a competitive basis. No freshmen are accepted directly into the major. Students seeking admittance into the business and distributive education major must provide evidence of satisfactorily completing BUS 117 - Introduction to Retailing, and BUS 312 - Principles of Accounting I and have a cumulative GPA of at least 2.5. Satisfactory completion is defined as a "C" grade or better.

**Note: New York State Teacher Certification requirements are changing. Please call the department for specific requirements.**

**General Education Requirements** ..... 42 cr  
**Total Required Credits in Business** ..... 27 cr

BUS 117	Introduction to Retailing
BUS 312	Principles of Accounting I
BUS 320	Principles of Marketing
BUS 325	Human Resources Management
BUS 327	Advertising Concepts and Practices
BUS 334	Business Law I
BUS 336	Visual Merchandising
BUS 360	Principles of Management
BUS 403	Marketing II-Buyer Behavior

**Total Required Credits in Professional Education** ..... 27 cr

OEC 301	Principles of Occupational Education
DED 415	Student Teaching (6 cr)
DED 416	Student Teaching (6 cr)
EDF 303	Educational Psychology
DED 411	Methods of Teaching Business and Distributive Education
OEC 302	Curriculum and Evaluation in Occupational Education
EDF 403	Historical and Philosophical Forces Influencing Secondary Education

**All College Electives** ..... 27 cr

**Total Required Credits** .....123 cr

## BUSINESS EDUCATION

(0404)

**Business Department**  
**Bachelor of Science (HEGIS 0838)**  
**National Council for Accreditation of Teacher Education (NCATE) Accredited**  
*Michael J. Littman, Chair*  
Chase Hall 302 (716) 878-4239

The program in business education leads to provisional certification to teach business courses, including word processing.

The business education curriculum adheres to the guidelines published by the National Association for Business Teacher Education.

**Admission Requirements:** Transfer students holding the A.A.S. degree in secretarial science are accepted into the major on a competitive basis. No freshmen are accepted directly into the major. Students seeking admittance into the business education major must provide evidence of satisfactorily completing BUS 116 - Introduction to Business, and BUS 312 - Principles of Accounting I and have a cumulative GPA of at least 2.5. Satisfactory completion is defined as a "C" grade or better.

**Note: New York State Teacher Certification requirements are changing. Please call the department for specific requirements.**

**General Education Requirements** ..... 42 cr  
**Total Required Credits in Business Education** ..... 18 cr

BUS 116	Introduction to Business
BUS 312	Principles of Accounting I
BUS 324	Business Communication
BUS 334	Business Law I
BUS 350	Current Practices in Business Computing
BUS 360	Principles of Management

**Total Required Credits in Professional Education** ..... 27 cr

OEC 301	Principles of Occupational Education
DED 411	Methods of Teaching Business and Distributive Education
DED 415	Student Teaching (6 cr)
BUS 416	Student Teaching (6 cr)
EDF 303	Educational Psychology
OEC 302	Curriculum and Evaluation in Occupational Education
EDF 403	Historical and Philosophical Forces in Secondary Education

**Electives in Business** ..... 16 cr

**All College Electives** ..... 20 cr

**Total Required Credits** ..... 123 cr

## BUSINESS STUDIES\*

(0430)

**Business Department**  
**Bachelor of Science in Special Studies (HEGIS 4999)**  
*Michael J. Littman, Chair*  
Chase Hall 302 (716) 878-4239

This degree program prepares students for management and leadership roles in business, public, and non-profit organizations. During the first two years of the program, students acquire a foundation in accounting, economics, and computers, as well as in the arts, humanities, and social and natural sciences. The last two years are devoted to upper-division courses in marketing, management, human resources, law, finance, and a capstone course in business strategy. The program permits students to take business electives in marketing, management, retailing, and international business.

**Admission Requirements:** Transfer students are accepted into the major on a competitive basis. No freshmen are accepted directly into the major. Students seeking admittance into the business major must have satisfactorily completed the English composition requirement, the basic mathematics requirement, BUS 312 - Principles of Accounting I, CIS 101 - Computer Fundamentals, and ECO 201 - Principles of Macroeconomics or ECO 202 - Principles of Microeconomics, and have a cumulative GPA of at least 2.25. Satisfactory completion is defined as a "C" grade or better. Students interested in business as a major may be admitted as a pre-business major (0429) until completion of entrance requirements.

Transfer students must take at least 12 credits in the department.

\*Also available through evening study

**General Education Requirements** ..... 42 cr  
**Total Required Credits in Business** ..... 42 cr

- A. Required Foundation Courses (18 cr)**
- |           |                                       |
|-----------|---------------------------------------|
| ECO 201   | Principles of Macroeconomics          |
| ECO 202   | Principles of Microeconomics          |
| CIS 101   | Computer Fundamentals                 |
| ECO 305   | Statistics for Economics              |
| <b>OR</b> |                                       |
| MAT 311   | Elementary Probability and Statistics |
| BUS 312   | Principles of Accounting I            |
| BUS 313   | Principles of Accounting II           |

- B. Business Core Requirements (18 cr)**
- |         |                            |
|---------|----------------------------|
| BUS 320 | Principles of Marketing    |
| BUS 325 | Human Resources Management |
| BUS 334 | Business Law I             |
| BUS 360 | Principles of Management   |
| BUS 430 | Business Strategy          |
| ECO 314 | Corporation Finance        |

- C. Business Electives (6 cr)**

**All College Electives** ..... 39 cr

**Total Required Credits** ..... 123 cr

## CHEMISTRY

(0726)

**Chemistry Department**  
**Bachelor of Arts (HEGIS 1905)**  
*Gregory W. Ebert, Chair*  
Science Building 313 (716) 878-5204

The program in chemistry has been approved by the American Chemical Society. Graduates of this program are fully prepared to assume entry-level positions as chemists with industrial or governmental laboratories or to begin more specialized programs of study at the graduate level.

**Special Admission Recommendations:** None at the freshman level. Transfer students from two-year colleges should have earned credit for courses equivalent to CHE 111-CHE 112, CHE 201-CHE 202, CHE 203-CHE 204, CHE 301, MAT 161, MAT 162, MAT 263, and PHY 111-PHY 112 in order to avoid possible delays in the completion of the degree program. Transfer students must complete a minimum of 10 credits in chemistry at Buffalo State. Chemistry courses taken elsewhere may be substituted for similar courses at Buffalo State only if they have the same or equivalent prerequisites. Chemistry courses not meeting this criterion may be transferred as elective credit.

**General Education Requirements** ..... 42 cr  
**Total Required Credits in Chemistry** ..... 42 cr

- A. Required Courses**
- |                 |                                   |
|-----------------|-----------------------------------|
| CHE 111-CHE 112 | Fundamentals of Chemistry I-II    |
| CHE 201-CHE 202 | Organic Chemistry I-II (lectures) |



## CHEMISTRY (CONTINUED)

CHE 203-CHE 204	Organic Chemistry I-II (labs)
CHE 301	Analytical Chemistry
CHE 305-CHE 306	Physical Chemistry I-II (lectures)
CHE 307-CHE 308	Physical Chemistry I-II (labs)
CHE 310	Literature of Chemistry
CHE 403	Instrumental Analysis
CHE 460	Inorganic Chemistry
CHE 461	Inorganic Chemistry Lab
CHE 470	Biochemistry
CHE 471	Biochemical Techniques

In addition to the above courses, any student who wishes to meet American Chemical Society minimum certification requirements must complete at least three credits in a laboratory-based CHE 495 (Project) during the senior year.

### B. Required Credit Hours in Other Fields

MAT 161/MAT 163, MAT 162/MAT 164, MAT 263/MAT 264 Calculus I-II, III  
PHY 111-PHY 112 University Physics I-II  
Foreign Language (0-12 credits depending on high school background)

All College Electives ..... 39 cr

Total Required Credits ..... 123 cr

## CHEMISTRY EDUCATION (7-12)

(0632)

Chemistry Department

Bachelor of Science (HEGIS 1905.01)

National Council for Accreditation of Teacher Education  
(NCATE) Accredited

Gregory W. Ebert, Chair

Science Building 313 (716) 878-5204

The secondary education major in chemistry is a program of professional study whose graduates are prepared to assume positions as teachers of chemistry and/or general science in grades 7-12. Successful completion of this program leads to provisional certification by the New York State Department of Education. Permanent certification is earned by completing a master's degree in a related area and two years of teaching experience at the secondary level.

**Special Admission Recommendations:** None at the freshman level. Transfer students from two-year colleges should have earned credit for courses equivalent to CHE 111-CHE 112, CHE 201-CHE 202, CHE 203-CHE 204, CHE 301, MAT 161, MAT 162, MAT 263, and PHY 111-PHY 112 in order to avoid possible delays in the completion of the degree program. Transfer students must complete a minimum of 10 credits in chemistry at Buffalo State. Chemistry courses taken elsewhere may be substituted for similar courses at Buffalo State only if they have the same or equivalent prerequisites. Chemistry courses not meeting this criterion may be transferred as elective credit.

**Note:** New York State Teacher Certification requirements are changing. Please call the department for specific requirements.

General Education Requirements ..... 42 cr

Total Required Credits in Chemistry ..... 31 cr

### A. Required Courses

CHE 111-CHE 112	Fundamentals of Chemistry I-II (4-4 cr)
CHE 201-CHE 202	Organic Chemistry I-II (lectures)
CHE 203-CHE 204	Organic Chemistry I-II (labs) (1-1 cr)
CHE 301	Analytical Chemistry (4 cr)
CHE 305-CHE 306	Physical Chemistry I-II (lectures)
CHE 307-CHE 308	Physical Chemistry I-II (labs) (1-1 cr)
Chemistry Elective (3 cr)	

Total Required Credits in Professional Education ..... 30 cr

### A. Required Courses in Professional Education

SED 200	Field Experience: Secondary Education and Related Courses
EDF 303	Educational Psychology
EDF 403	Historical and Philosophical Forces Influencing Secondary Education
EDF 416	Teaching Reading in Secondary Schools
SED 307	Techniques for Teaching Laboratory Activities in the Secondary Science Classroom
SED 308	Methods and Materials in Teaching Secondary School Science
SED 407	Practice Teaching Science in the Secondary School (6 cr)
SED 408	Practice Teaching Science in the Secondary School (6 cr)

### B. Required Courses in Other Fields

BIO 115-BIO 116 Botany-Zoology <sup>1,2</sup>  
MAT 161/MAT 163, MAT 162/MAT 164, MAT 263 Calculus I-II, III <sup>1,2</sup>  
PHY 111-PHY 112 University Physics I-II <sup>1,2</sup>  
Two semesters of geoscience <sup>1,2</sup>  
Two semesters of a foreign language <sup>1,2,3</sup>

All College Electives ..... 20 cr

Total Required Credits ..... 123 cr<sup>4</sup>

<sup>1</sup> Required for provisional certification

<sup>2</sup> Required for graduation

<sup>3</sup> Consult adviser (depends on high school background)

<sup>4</sup> Students required to take ENG 101 and/or ENG 102 or any pre-calculus mathematics will probably accumulate more than 123 credits prior to graduation.

## COMMUNICATION

See Individual Majors

- Broadcasting
- Communication
- Journalism
- Public Communication

## COMMUNICATION

(0706)

Communication Department

Bachelor of Arts (HEGIS 0699)

Janet E. Ramsey, Chair

Bishop Hall 210 (716) 878-6008

The communication major is designed to meet the needs of students preferring to take a generalist approach to the discipline. The major is a combination of theory-oriented courses and applied courses that span the range of communication studies.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements ..... 42 cr

Total Required Credits in Communication ..... 39 cr

### A. Required Courses (27 cr)

COM 205	Introduction to Oral Communication
COM 210	Introduction to Writing for the Media
COM 215	Introduction to Visual Communication
COM 450	Communication and Society <sup>1</sup>

<sup>1</sup>COM 450 is required of all students choosing a major in the Communication Department. It must be taken after completion of 90 credits.

### Upper-Level Oral Communication Course

Choose one of the following:

COM 306	Advanced Public Speaking
COM 307	Communication and Group Process

### Upper Level Written Communication Course

Choose one of the following:

COM 303	Writing for Publication
COM 304	Broadcast Copywriting
COM 308	Public Relations Writing
COM 325	Feature and Magazine Article Writing
COM 327	Specialized Reporting
COM 337	Broadcast Newswriting

### Upper Level Visual Communication Course

Choose one of the following:

COM 322	Layout and Graphics
COM 323	Desktop Publishing
COM 329	Beginning Television Production
COM 336	Communication and Web Publishing

### Communication Theory and Criticism

Choose two of the following:

COM 309	Persuasion
COM 321	Rhetorical Criticism
COM 327	Great Reporting and Writing
COM 333	Minority Voices and the Media
COM 401	Communication Theory
COM 407	Organizational Communication
COM 410	Mass Communication History
COM 422	Mass Media Criticism
COM 424	Vietnam and the Media

### B. Electives Selected by Advisement (12 cr)

Twelve credits selected from all 300- and 400-level courses in the Communication Department

Foreign Language Requirement ..... 0-12 cr

All College Electives ..... 30-42 cr

Total Required Credits ..... 123 cr

## COMPUTER INFORMATION SYSTEMS\*

(0825)

Computer Information Systems Department

Bachelor of Science (HEGIS 0702)

Lawrence W. Scott, Chair

Chase Hall 202 (716) 878-5528

The Computer Information Systems Program is designed to prepare students for entry-level positions (programmer, systems analyst, network support) in the computer field, and to provide them with the technical knowledge and managerial skills necessary for a wide range of subsequent career paths. There is a growing demand in all sectors for individuals with this combination of capabilities. This program was developed with the cooperation of employers and information systems professionals, and unlike a computer science program, its emphasis is on commercial applications of computers rather than theory.

**Admission Requirements:** Freshmen can apply as uncommitted students. After successful completion of CIS 151, an uncommitted student in good academic standing may commit to the Computer Information Systems major.

Transfer students who hold A.S. or A.A.S. degrees in related fields (CIS, CS, DP) or have successfully completed a course equivalent to CIS 151 are accepted directly into the major on a competitive basis. Other transfer students should contact the Computer Information Systems Department.

\*Also available through evening study

General Education Requirements ..... 42 cr

Total Required Credits in Computer Information Systems ..... 42 cr

### A. Required Courses (30-33 cr)

CIS 151	Computer Based Information Processing I
CIS 251	Computer Based Information Processing II
CIS 315	Computer Organization
CIS 361	C Programming <sup>1</sup>
CIS 370	Systems Analysis and Design
CIS 380	Microcomputer Applications
CIS 405	Comprehensive COBOL Programming
CIS 410	Computer Operating Systems
CIS 411	Database Systems
CIS 442	Advanced Systems Applications
CIS 470	Data Communications

### B. Electives (9-12 cr)

CIS 311	Computer Models for Decision Making
CIS 351	Structured Programming
CIS 400	Visual Basic <sup>2</sup>
CIS 420	Database Management Systems <sup>2</sup>
CIS 425	Object-Oriented Development <sup>2</sup>
CIS 430	Applied COBOL <sup>2</sup>
CIS 435	Computer Seminar
CIS 488	Internship
CIS 495	Project
CIS 499	Independent Study

<sup>1</sup>Required only for transfer students who have not taken a course in C Programming.

<sup>2</sup>At least three credits of major electives must come from these restricted electives. Certain sections of CIS 435 may also fill this requirement.

### C. Additional Requirements

A minimum of 21 credits, including at least three credits of restricted elective, must be completed in the department.

All College Electives ..... 39 cr

Total Required Credits ..... 123 cr

## CRIMINAL JUSTICE\*

(0771)

Criminal Justice Department

Bachelor of Science (HEGIS 2105)

Charles E. Reasons, Chair

Classroom Building C114 (716) 878-4517

Criminal justice is a multi-disciplinary academic program which examines the characteristics and operations of the criminal justice system and relationships between crime and crime control within the context of a democratic society. The program is designed to explore social, cultural, political, and organizational influences on criminal justice policies and operations from both theoretical and real-world perspectives.

**Admission Requirements:** Students are not accepted during their first semester at the college. A minimum of 12 credits of coursework must be completed with an overall GPA of 2.5. A student is then eligible to apply for admittance as a criminal justice major. Transfer students from community colleges are accepted based upon their academic average and according to their date of application.

A departmental honors program is also available. Students should contact the department for additional information.

\*Also available through evening study

General Education Requirements ..... 42 cr

Total Required Credits in Criminal Justice ..... 42 cr

1. No transfer students may take lower division courses in the major without permission of the department chair.
2. ECO 305, PSY 306, MAT 311 or an approved statistics course is a prerequisite for CRJ 315.



## CRIMINAL JUSTICE (CONTINUED)

3. No more than one CRJ 499 and/or CRJ 495 course may be used in the major and none may be used in the major if taken prior to satisfactory completion of CRJ 315 without special consent (written) of the department.
4. CRJ 495 and CRJ 499 require senior class standing and a Buffalo State College cumulative GPA of 3.0 or greater.

### A. Core Courses (12 cr)

CRJ 101	Introduction to Criminal Justice
CRJ 203	Crime, Ideology, and the Administration of Justice
CRJ 315	Research Methods in Criminal Justice
CRJ 470	Advanced Seminar in Criminal Justice

### B. Supporting Courses (12 cr)

CRJ 201	Criminal Law and Procedure
CRJ 202	The Police Process
CRJ 204	The Correctional Process
CRJ 301	Police Organization and Management
CRJ 302	Criminal Justice and the Community
CRJ 305	The Juvenile Justice System
CRJ 306	Probation, Parole, and Community Corrections
CRJ 307	Comparative Criminal Justice Systems
CRJ 308	Crime Prevention
CRJ 317	Constitutional Issues in Criminal Justice
CRJ 320	Criminal Courts
CRJ 406	Correctional Institutions and Programs

### C. Criminal Justice Electives (9 cr)

CRJ 402	Advanced Administration in Criminal Justice
CRJ 408	Pro-Seminar in Criminal Justice
CRJ 409	Advanced Issues in Law Enforcement
CRJ 420	Advanced Issues in Punishment and Corrections
CRJ 425	Race, Ethnicity and the Administration of Justice <sup>1</sup>
CRJ 430	Gender and the Administration of Justice <sup>1</sup>
CRJ 495	Special Project
CRJ 499	Independent Study

<sup>1</sup>One of these must be included as elective.

### D. Behavioral and Social Science Electives (9 cr)

ANT 307	Urban Anthropology
EDF/SOC 311	Family Violence
ECO 305	Economic Statistics
ECO 412	Urban Economics
HIS 343	Introduction to American Legal History
PHI 304	Philosophy of Law
PHI 323	Moral Issues
PSC 315	State and Local Government <sup>2</sup>
PSC 316	Urban Ethnic Politics <sup>2</sup>
PSC 360	Public Administration <sup>2</sup>
PSY 306	Statistics in Psychological Research <sup>2</sup>
PSY 411	Abnormal Psychology <sup>2</sup>
PSY 325	Social Behavior <sup>2</sup>
PSY 386	Psychology of Stress, Coping, and Health <sup>2</sup>
SWK 320	Organization of Community Services
SWK 346	Child Abuse and Neglect
SOC 351	Sociology of Race and Ethnicity <sup>2</sup>
SOC 380	Sociology of Crime <sup>2</sup>
SOC 390	Juvenile Delinquency <sup>2</sup>

<sup>2</sup>No more than six credits from one course area (i.e., two PSC courses, two PSY courses, two SOC courses) allowed.

All College Electives ..... 39 cr

Total Required Credits ..... 123 cr

## DESIGN

(0180)

### Design Department

#### Bachelor of Fine Arts (HEGIS 1009)

*Stephen F. Saracino, Chair*

Upton Hall 212 (716) 878-6032

The Bachelor of Fine Arts degree is a studio-intensive program of study. This degree offers students a more specialized studio-oriented education in preparation for advanced, graduate studies or for beginning careers as professional designers or craft artists.

Students begin with foundation courses in two-dimensional design, three-dimensional design, color, art history, and design history. They complete their major with courses in one of the following concentrations: ceramic design, fiber design, furniture design, graphic design, interior design, and jewelry design. Internship opportunities are available for all concentrations.

The remaining credits are completed in required general education courses and in other chosen studio courses.

All students entering the Design Program are placed into a Design Uncommitted (0174) category until they are evaluated via a portfolio review for admission into the intended major concentration. Commit-to-major portfolio reviews are conducted by faculty and generally take place during the first semester of the sophomore year, after completion of the beginning foundations sequence and the first course in the intended concentration.

Transfer students are urged to bring their portfolios to orientation advising to facilitate placement in departmental courses and/or for possible commit-to-major portfolio review. Please call the Design Department for additional information.

The Design Department reserves the right to retain students' work for official purposes such as exhibitions, catalogs, teaching aids, or permanent collections. Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class.

General Education Requirements .....39 cr

Total Required Credits in Design .....73 cr

### A. Foundation Program (37 cr)

#### Ceramic Design, Fiber Design, Furniture Design,

#### Jewelry Design Concentration

DES 101	Introduction Design 2D I
DES 102	Introduction Design 2D II
DES 103	Introduction Design 3D I
DES 104	Introduction Design 3D II
DES 105	Mechanical and Perspective Drawing
FAR 101	Drawing I
DES 307	Color Theory
FAR 250	Art History I
FAR 251	Art History II
DES 215	Introduction to Design History
DES 312	History of Crafts
DES 414	Seminar/Exhibition

#### Graphic Design Concentration

DES 101	Introduction Design 2D I
DES 102	Introduction Design 2D II
DES 103	Introduction Design 3D I
DES 104	Introduction Design 3D II
FAR 101	Drawing I
DES 307	Color Theory
FAR 250	Art History I
FAR 251	Art History II
DES 215	Introduction to Design History
DES 314	History of Graphic Design
DES 477	Computer Assisted Graphic Design I
DES 414	Seminar/Exhibition

### Interior Design Concentration

DES 101	Introduction Design 2D I
DES 103	Introduction Design 3D I
DES 105	Mechanical and Perspective Drawing
FAR 250	Art History I
FAR 251	Art History II
DES 215	Design History I
DES 312	History of Craft
DES 262	AutoCad I for Interior Design
DES 309	Architectural Drafting and Perspective Drawing
DES 362	AutoCad II for Interior Design
DES 367	Professional Practice
DES 368	Lighting Design

### B. Major Concentrations (27 cr)

#### Ceramic Design Concentration

DES 220	Ceramics I <sup>1</sup>
DES 320	Ceramics II
FAR 240	Introduction to Sculpture
DES 321	Ceramics - Junior Studio (9 cr)
DES 421	Ceramics - Senior Studio (12 cr)

#### Fiber Design Concentration

DES 240	Design in Fibers - Weaving <sup>1</sup>
DES 245	Design in Fibers - Surface Design <sup>1</sup>
DES 341	Fiber - Weaving - Junior Studio
	OR
DES 346	Fiber - Surface Design - Junior Studio (12 cr)
DES 441	Fiber - Weaving - Senior Studio
	OR
DES 446	Fiber - Surface Design - Senior Studio (12 cr)

#### Furniture Design Concentration

DES 250	Wood Design I <sup>1</sup>
DES 309	Principles of Perspective Drawing
DES 363	Furniture Theory and Application
DES 350	Technical Processes in Wood
DES 351	Wood Design - Junior Studio
	OR
DES 351	U.B.'s ARC 490 Furniture Design
DES 451	Wood Design - Junior Studio
DES 488	Wood Design - Senior Studio (6 cr)
	Internship (6 cr)

#### Jewelry Design Concentration

DES 230	Introduction to Jewelry Making <sup>1</sup>
DES 330	Applied Jewelry Techniques
DES 336	Metalsmithing
DES 337	Metalsmithing - Junior Studio
	OR
DES 331	Jewelry - Junior Studio (6 cr)
DES 431	Jewelry - Senior Studio (6 cr)

#### Graphic Design Concentration

DES 270	Visual Communication I <sup>1</sup>
DES 271	Lettering and Typography
DES 380	Illustration
FAR 220	Photography
DES 370	Visual Communication II
DES 371	Lettering and Typography II
DES 374	Advertising Design
DES 473	Graphic Design
DES 475	Graphic Design Practicum
DES 478	Computer Assisted Graphic Design II

#### Interior Design Concentration

FTT 206	Introduction to Textiles <sup>1</sup>
DES 260	Introduction to Interior Design <sup>1</sup>
DES 310	Interior Design I
DES 360	Interior Design II
DES 361	Interior Design III
DES 363	Furniture Theory and Application <sup>1</sup>
DES 460	Interior Design IV
DES 461	Interior Design V
DES 364	Construction Fundamentals I
DES 365	Construction Fundamentals II

DES 366	Materials/Specification
DES 369	Interior Detailing

### C. Studio Electives (9 cr)

Advisement by concentration

<sup>1</sup> Denotes introductory courses placed in studio electives

All College Electives ..... 11 cr

Total Required Credits ..... 123 cr

## DESIGN

(0180)

### Design Department

#### Bachelor of Science (HEGIS 1009)

*Stephen F. Saracino, Chair*

Upton Hall 212 (716) 878-6032

The Bachelor of Science degree is a studio degree with a strong academic component. This degree offers students a broadly grounded education experience as a basis for beginning careers as professional designers or craft artists.

Students begin with foundation courses in two-dimensional design, three-dimensional design, and design history. They complete their major with courses in one of the following concentrations: ceramic design, fiber design, furniture design, graphic design, jewelry design, theater design, and computer textile design for industry.

The remaining credits are completed in required general education courses and in other academic subjects of the student's choosing. The academic component offers students opportunities to gain a broader base of knowledge, as well as knowledge in other disciplines related to their major field of study.

All students entering the Design Program are placed into a Design Uncommitted (0174) category until they are evaluated via a portfolio review for admission into the intended major concentration. Commit-to-major portfolio reviews are conducted by faculty and generally take place during the first semester of the sophomore year, after completion of the beginning foundations sequence and the first course in the intended concentration.

Transfer students are urged to bring their portfolios to orientation advising to facilitate placement in departmental courses and/or for possible commit-to-major portfolio review. Please call the Design Department for additional information.

The Design Department reserves the right to retain students' work for official purposes such as exhibitions, catalogs, teaching aids, or permanent collections. Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class.

General Education Requirements ..... 42 cr

Total Required Credits in Design ..... 42 cr

### A. Foundation Program (21 cr)

#### Ceramic Design, Fiber Design, Furniture Design,

#### Jewelry Design Concentration

DES 101	Introduction Design 2D I
DES 102	Introduction Design 2D II
DES 103	Introduction Design 3D I
DES 104	Introduction Design 3D II
DES 307	Color Theory
	OR
DES 105	Mechanical and Perspective Drawing
DES 215	Introduction to Design History
DES 312	History of Craft

#### Graphic Design Concentration

DES 101	Introduction Design 2D I
DES 102	Introduction Design 2D II



## DESIGN (CONTINUED)

DES 103	Introduction Design 3D I
DES 104	Introduction Design 3D II
DES 477	Computer Assisted Graphic Design
DES 215	Introduction to Design History
DES 314	History of Graphic Design

### Theater Design Concentration

DES 101	Introduction Design 2D I
DES 102	Introduction Design 2D II
DES 103	Introduction Design 3D I
DES 104	Introduction Design 3D II
DES 105	Mechanical and Perspective Drawing
THA 317	History of Theater: Ancient to Renaissance
THA 318	History of Theater: Renaissance to Modern

### Computer Textile Design for Industry Concentration

DES 101	Introduction Design 2D I
DES 102	Introduction Design 2D II
DES 103	Introduction Design 3D I
DES 240	Design in Fibers - Weaving
DES 307	Color Theory
DES 215	Introduction to Design History
FTT 499	Textiles Through the Ages

### B. Major Concentration (21 cr)

(All 6-credit course designations for the B.S. degree are 3-credit courses taken over two semesters.)

### Ceramic Design Concentration

DES 220	Ceramics I
DES 320	Ceramics II
FAR 240	Introduction to Sculpture
DES 321	Ceramics - Junior Studio (6 cr)
DES 421	Ceramics - Senior Studio (6 cr)

### Fiber Design Concentration

DES 240	Design in Fibers - Weaving <sup>1</sup>
DES 245	Design in Fibers - Surface Design <sup>1</sup>
DES 341	Fiber - Weaving - Junior Studio (3-6 cr)
DES 346	Fiber - Surface Design - Junior Studio (3-6 cr)
DES 441	Fiber - Weaving - Senior Studio
	<b>OR</b>
DES 446	Fiber - Surface Design - Senior Studio (3-6 cr)

### Furniture Design Concentration

DES 250	Wood Design I
DES 363	Furniture: Theory and Application
DES 350	Technical Processes in Wood
DES 351	Wood Design - Junior Studio (6 cr)
DES 451	Wood Design - Senior Studio (6 cr)

### Jewelry Design Concentration

DES 230	Introduction to Jewelry Making
DES 330	Applied Jewelry Techniques
DES 336	Metalsmithing
DES 331	Jewelry - Junior Studio (6 cr)
DES 431	Jewelry - Senior Studio (6 cr)

### Graphic Design Concentration

DES 270	Visual Communication
DES 271	Lettering and Typography
DES 380	Illustration
FAR 220	Photography
DES 370	Visual Communication II
DES 374	Advertising Design
DES 473	Graphic Design

### Theater Design Concentration

THA 234	Technical Theater
DES 307	Color Theory
DES 318/THA 337	Set Design I
THA 332	Period Styles/Theater
THA 335	Costuming
THA 336	Lighting Techniques
	<b>OR</b>

THA 333	Scene Painting
THA 437	Set Design II
	<b>OR</b>

### Computer Textile Design for Industry Concentration

FTT 206	Introduction to Textiles
DES 245	Design in Fibers - Surface Design
	<b>OR</b>
FTT 303	Fashion Illustration
FTT 304	Print Rendering for Industry
FTT 412	CAD Print Design for Industry
FTT 413	CAD Weave Design for Industry
FTT 450	Apparel/Textile/Fashion Industry
FTT 495	Special Project
	<b>OR</b>
FTT 488	Internship

All College Electives .....	39 cr
Total Required Credits .....	123 cr

## DIETETICS: COORDINATED PROGRAM

(0410)

### Nutrition, Hospitality, and Fashion Department

#### Bachelor of Science (HEGIS 1306)

#### American Dietetic Association (ADA) Accreditation

*Suk Y. Oh, Chair*

Caudell Hall 107 (716) 878-5913

The Coordinated Program in Dietetics (CPD), accredited by the American Dietetic Association (ADA), combines theoretical learning with supervised practice during the junior and senior years. The curriculum can be completed in four years if students select the appropriate prerequisite courses in the first two years of college. Graduates are recommended for membership in the American Dietetic Association (ADA) and are eligible to take the registration examination. Upon successful completion of the examination, graduates become registered dietitians.

**Admission Requirements:** Students, sophomores or later, apply directly to the department in January of each year. The application process includes a personal interview, a biographical sketch, and various other activities; a 2.75 GPA by August 20, and completion of the following courses by the next fall term: BIO 313, CHE 111, CHE 112, CHE 321, CHE 322, NFS 101, NFS 337, NFS 301, PSY 101, SOC 100. Up to 16 students can be accepted in this program each year. Most likely, more students will apply than can be accepted.

Individuals interested in applying to the coordinated program must contact the department for application details. These are available by December 1 of each year; completed forms must be returned by January 20. Late applications will not be considered.

General Education Requirements .....	42 cr
Total Required Credits in Nutrition and Food Science .....	59 cr

### A. Required Courses (32 cr)

NFS 101	Introductory Food
NFS 301	Food Science
NFS 337	Human Nutrition
NFS 338	Nutrition and the Life Cycle
NFS 361	Principles of Management in Food Service
NFS 410	Nutrition Education
NFS 440	Applied Nutrition, Part I
NFS 442	Applied Nutrition, Part II
NFS 443	Applied Nutrition, Part III
NFS 462	Management and Food Service Operations

B. To satisfy the clinical requirements of the American Dietetic Association, students are required to take the following courses, which may be substituted for electives. (27 cr)

NFS 445	Nutritional Care A
NFS 446	Nutritional Care B
NFS 447	Nutritional Care C
NFS 448	Nutritional Care D
NFS 449	Nutritional Care E
NFS 450	Senior Practicum in Dietetics
NFS 451	Specialty Practice
NFS 471	Experiences in Health Care Food Service Systems

C. A minimum of 12 credits in the major must be completed in the department.

### Required Courses in Other Departments

The American Dietetic Association requires completion of subjects outside nutrition to satisfy academic requirements. Courses meeting these requirements are identified below; they may be taken as electives or used in fulfilling the General Education requirements.

BIO 100	Principles of Biology
BIO 210	Bacteriology
BIO 313	Human Anatomy and Physiology
CHE 111	Fundamentals of Chemistry I
CHE 112	Fundamentals of Chemistry II
CHE 321	Principles of Organic Chemistry
CHE 322	Biological Chemistry
PSY 101	Introduction to Psychology
SOC 100	Introduction to Sociology
LIB 100	Library Research Methods and Bibliography
CIS 101	Computer Fundamentals
ECO 305	Statistics for Economics or equivalent

All College Electives .....	22 cr
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Total Required Credits .....	123 cr
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## DIETETICS: DIDACTIC PROGRAM

(0410)

### Nutrition, Hospitality, and Fashion Department

#### Bachelor of Science (HEGIS 1306)

#### American Dietetic Association (ADA) Accreditation

*Suk Y. Oh, Chair*

Caudell Hall 107 (716) 878-5913

The Didactic Program in Dietetics (DPD) is approved by the American Dietetic Association (ADA). This program enables the students to satisfy academic requirements established by ADA. Graduates apply to post-baccalaureate dietetic internships offered at various locations across the country, to satisfy the ADA supervised practice component. Successful completion of the education and experience requirements, and passing the registration examination, earns the credentials of registered dietitian.

Career opportunities are available to dietitians in health facilities, food service organizations, government agencies, and consulting work. Some individuals use this program to prepare for graduate study in nutrition-related areas.

**Admission Requirements:** Transfer or uncommitted students desiring a major in this program must have a minimum GPA of 2.75 on previous college credit.

General Education Requirements .....	42 cr
Total Required Credits in Nutrition and Food Science .....	37 cr

### A. Required Courses (Program Emphasis: General)

NFS 101	Introductory Food
NFS 301	Food Science
NFS 337	Human Nutrition
NFS 338	Nutrition and the Life Cycle
NFS 361	Principles of Management in Food Service
NFS 410	Nutrition Education: Concepts and Applications
NFS 440	Applied Nutrition, Part I
NFS 452	Dietary Modification in Disease, Part I
NFS 453	Dietary Modification in Disease, Part II
NFS 462	Management of Food Service Operations
NFS 468	Quality Improvement

B. A minimum of 12 credits in the major must be completed in the department.

### Required Courses in Other Departments

The American Dietetic Association requires completion of subjects outside nutrition to satisfy academic requirements. Courses meeting these requirements are identified below; they may be taken as electives or used in fulfilling the General Education requirements.

BIO 100	Principles of Biology
	<b>OR</b>
BIO 214	Introduction to Cell Biology
BIO 210	Bacteriology
BIO 313	Human Anatomy and Physiology
CHE 111	Fundamentals of Chemistry I
CHE 112	Fundamentals of Chemistry II
CHE 321	Principles of Organic Chemistry
CHE 322	Biological Chemistry
PSY 101	Introduction to Psychology
SOC 100	Introduction to Sociology
SOC 330	Social Psychology
LIB 100	Library Research Methods and Bibliography
CIS 101	Computer Fundamentals
ECO 305	Statistics for Economics or equivalent
EDF 303	Educational Psychology

All College Electives .....	44 cr
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Total Required Credits .....	123 cr
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## EARTH SCIENCES

(0737)

### Earth Sciences and Science Education Department

#### Bachelor of Science (HEGIS 1917)

*Stephen J. Vermette, Chair*

Science Building 271 (716) 878-6731

The Earth Sciences Program offers students the opportunity to develop a broad understanding of the earth as a dynamic, interacting system of land, sea, atmosphere, and solar system. The student, in consultation with a faculty adviser, will choose one of the four available concentrations at the completion of nine credits in the major. The concentrations, leading in somewhat different career directions, are environmental earth sciences, earth sciences (advised for secondary education earth science candidates), geology, and air and space (earth sciences majors may not minor in astronomy).

Additionally, all earth sciences majors must demonstrate proficiency in chemistry, mathematics, and physics. They are not required for a degree, but are strongly advised for all majors.

**CHE 111-CHE 112 or CHE 101-CHE 102:** The CHE 101-CHE 102 sequence is not recommended for students contemplating graduate school, environmental science careers, or secondary earth science certification.

**Mathematics:** A minimum of two courses from the sequence MAT 110, MAT 124, MAT 126, MAT 127, or equivalent. Each student should choose the appropriate courses by advisement, beginning with entry into the



## EARTH SCIENCES (CONTINUED)

major. Students contemplating graduate school are advised to finish a calculus sequence (MAT 161-MAT 162 or MAT 126-MAT 127).

*PHY 111-PHY 112 or PHY 107-PHY 108:* The first sequence is calculus-based and is recommended for students contemplating graduate school.

A departmental honors program also is available. Students should contact the department for additional information.

General Education Requirements .....	42 cr
Total Required Credits in Earth Science .....	39-42 cr

### A. Required Courses (24 cr)

GES 101	Introductory Geology
GES 102	Historical Geology
GES 103	Introductory Geology Laboratory
GES 111	General Oceanography
GES 131	Introductory Astronomy
GES 303	Mineralogy and Petrology
GES 307	Geomorphology
GES 308	Structural Geology

### B. Concentrations (18 cr)

#### Environmental Earth Sciences Concentration

GES 300	Sedimentology
GES 301	Stratigraphy
GES 452	Hydrogeology
GES 460	Applied Environmental Methods
Choose two from the following: GES 350, GES 404, GES 409, GES 444, GEG 365.	

Students should consider completing the environmental sciences minor. CHE 111-CHE 112 is strongly advised.

#### Earth Science Concentration (16 cr)

GES 302	Invertebrate Paleontology
GES 241	Meteorology
GES 33*	Astronomy Elective
GES 405	Geology of North America
GES XXX	Upper-level Elective

Students who wish to obtain earth science and general science certifications (7-12) for junior/senior high school teaching must also complete other professional requirements. See Earth Science 7-12 (Secondary Education) program in this catalog.

#### Geology Concentration (16 cr)

GES 300	Sedimentology
GES 301	Stratigraphy
GES 302	Invertebrate Paleontology
GES 404	Field Geology

Choose one from the following: GES 350 or GES 450.

Students contemplating graduate study are advised that CHE 111-CHE 112, MAT 126-MAT 127 (Calculus), and PHY 111-PHY 112 are essential to a modern geology (or related) program. These sequences should begin before the graduate school decision is made; not taking them limits a student's future options.

#### Air and Space Concentration (18 cr)

GES 241	Meteorology
GES 331	Modern Solar System Astronomy
<i>Choose four from the following:</i>	
GES 332	Stellar and Galactic Astronomy
GES 339	Astronomy and Cosmology
GES 350	Environmental Geochemistry
GES 431	Planetarium Seminar
GES 444	Global Systems Geomorphology
GES 445	Weather Forecasting

All College Electives .....	39-40 cr
Total Required Credits .....	123 cr

## EARTH SCIENCE EDUCATION (7-12)

(0633)

### Earth Sciences and Science Education Department

#### Bachelor of Science

#### National Council for Accreditation of Teacher Education (NCATE) Accredited

*Stephen J. Vermette, Chair*

Science Building 271 (716) 878-6731

The Secondary Education Earth Science Program leads to New York State Certificates of Qualification for teaching both earth science and general science in grades 7-12. It is not a degree program in itself, but an optional sequence of study which must be combined with either the bachelor of science in earth sciences or the bachelor of arts in geology. All degree requirements for these programs must be fulfilled, in addition to those listed here. A GPA of 2.5 or higher is required to enroll in SED 408.

**Note: New York State Teacher Certification requirements are changing. Please call the department for specific requirements.**

General Education Requirements .....	42 cr
(may be applied to either B.A. geology or B.S. earth sciences programs)	

Total Required Credits in Earth Sciences .....	40 cr
(may be applied to B.A. geology or B.S. earth sciences program)	

GES 101	Introductory Geology
GES 102	Historical Geology
GES 103	Introductory Geology Lab (1 cr)
GES 111	General Oceanography
GES 131	Introduction to Astronomy
GES 33*	Astronomy Elective
GES 241	Meteorology
GES 302	Invertebrate Paleontology
GES 303	Mineralogy and Petrology
GES 307	Geomorphology
GES 308	Structural Geology
GES 405	Geology of North America
GES XXX	Upper-level Elective

Total Required Credits in Professional Education .....	30 cr
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SED 200	Field Experience in Secondary Education (required for all secondary education majors)
EDF 303	Educational Psychology
EDF 403	Historical and Philosophical Forces Influencing Secondary Education
EDU 416	Teaching Reading in the Secondary Schools
SED 307	Techniques for Teaching Laboratory Activities in the Secondary Science Classroom
SED 308	Methods and Materials in Teaching Secondary School Science
SED 407/SED 408	Practice Teaching Science in the Secondary School (12 cr)

#### Credits in Other Fields

Two semesters of biology (BIO 115/BIO 116 recommended)	
Two semesters of chemistry (CHE 101/CHE 102 or CHE 111/CHE 112 recommended)	
Two semesters of physics (PHY 107/PHY 108 or PHY 111/PHY 112 recommended)	
One year of college-level study of a foreign language (or equivalent)	

Foreign Language Requirement (B.A. degree only) .....	0-12 cr
Total Required Credits .....	123 cr

## ECONOMICS

(0704)

### Economics and Finance Department

#### Bachelor of Arts (HEGIS 2204)

*Douglas G. Koritz, Chair*

Classroom Building B207 (716) 878-4606

The B.A. degree program in economics is designed to provide a solid foundation in the skills and analytical techniques required to understand changes in the economic environment and to be able to formulate decisions as consumers, resource owners, and as managerial personnel in business, government, and nonprofit organizations. This program is also designed to prepare students to participate, as career professionals and as scholars, in the global economy by providing a strong focus on the international aspects of economics. Students who choose this program are encouraged to complement the international focus of the program by taking additional appropriate courses in history, political science, and geography. In addition to providing preparation for a variety of entry-level management positions in business and government, the program also offers excellent preparation for graduate work in international business, economics, and law.

**Admission Requirements:** Transfer or uncommitted students must have a minimum 2.0 GPA on all previous college credit.

**Transfer Students:** Most courses taken at an accredited institution and relevant to the B.A. degree program will be accepted, but the majority of courses applied to the major must be courses completed at Buffalo State College. In most cases, grades for transfer courses will be used in computing the required minimum GPA for admission into the program.

**Honors Option for the B.A. Program:** An honors designation is available for students who have established high standards of achievement and demonstrated a capacity for independent work. Students should contact the department for information on admission and requirements.

General Education Requirements .....	42 cr
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Total Required Credits in Economics .....	36 cr
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### A. Required Courses (24 cr)

ECO 201	Principles of Macroeconomics
ECO 202	Principles of Microeconomics
ECO 305	Statistics for Economics
ECO 307	Intermediate Microeconomics
ECO 308	Intermediate Macroeconomics
ECO 405	History of Economic Thought
ECO 490	Senior Seminar

### B. At Least One of the Following:

ECO 400	International Finance
ECO 401	International Trade
ECO 403	Comparative Economic Systems
ECO 404	Economics of Development

### C. Economics Electives Selected by Advisement (12 cr)

(Only three credits of ECO 488, ECO 495, or ECO 499 may be included.)

Foreign Language Requirement .....	0-12 cr
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All College Electives .....	33-45 cr
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Total Required Credits .....	123 cr
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Note: It is strongly recommended that students who plan to pursue a Ph.D. in economics also complete, as a minimum, MAT 161, MAT 162, and MAT 202.

## ECONOMICS\*

(0702)

### Economics and Finance Department

#### Bachelor of Science (HEGIS 2204)

*Douglas G. Koritz, Chair*

Classroom Building B207 (716) 878-4606

The B.S. degree program in economics is designed to provide a solid foundation in the basic skills and analytical techniques that are necessary to understand changes in the broad economic environment and to be able to formulate decisions as consumers, resource owners, and managerial personnel in business, government, and nonprofit organizations. Students choose a concentration in either applied economics or financial economics and complete additional required courses and specialized electives. Both concentrations prepare students for entry-level management positions in business, government, and nonprofit organizations and also provide excellent preparation for graduate work in business administration, economics, and law.

**Admission Requirements:** Transfer or uncommitted students must have a minimum GPA of 2.0 on previous college credit.

**Transfer Students:** Most courses taken at an accredited institution and relevant to the B.S. degree program will be accepted, but the majority of courses applied to the major must be courses completed at Buffalo State College. In most cases, grades for transfer courses will be used in computing the required GPA for admission into the major.

\*Also available through evening study

General Education Requirements .....	42 cr
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Total Required Credits in Economics .....	45 cr
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### A. Required Courses (27 cr)

ECO 201	Principles of Macroeconomics
ECO 202	Principles of Microeconomics
ECO 305	Statistics for Economics
ECO 307	Intermediate Microeconomics
ECO 308	Intermediate Macroeconomics
ECO 424	Econometrics
BUS 312	Principles of Accounting I
MAT 126	Calculus
<b>OR</b>	
MAT 161	Calculus I
ECO 490	Senior Seminar

In addition, economics majors are required to select one of two concentrations and to complete an additional six or nine credits (depending on the concentration) of economics.

#### Applied Economics Concentration (6 cr)

ECO 320	Managerial Economics
<b>OR</b>	
ECO 325	Industrial Organization
ECO 405	History of Economic Thought

#### Financial Economics Concentration (9 cr)

BUS 313	Principles of Accounting II
ECO 304	Money and Banking
ECO 314	Corporation Finance

### B. Specialized Area Electives (12 cr or 9 cr)

(Only three credits of ECO 488, ECO 495, or ECO 499 may be included.)

#### Applied Economics Concentration (12 cr)

*Six credits must be selected by advisement:*

ECO 300	Labor Economics
ECO 301	Economics of Labor Relations
ECO 302	Women in the Economy
ECO 304	Money and Banking
ECO 312	Urban Economics
ECO 317	Economic Policy: Government and Business
ECO 340	Federal Income Taxation



## ECONOMICS (CONTINUED)

ECO 350	Public Finance
ECO 355	Economics of Energy and Environment
ECO 360	Economic Analysis of the Law
ECO 400	International Finance
ECO 401	International Trade
ECO 403	Comparative Economic Systems
ECO 404	Economics of Development
ECO 411	Regional Economics
ECO 488	Internship
ECO 495	Project
ECO 499	Independent Study

### Financial Economics Concentration (9 cr)

ECO 340	Federal Income Taxation
ECO 345	Estate Planning
ECO 400	International Finance
ECO 414	Investment Management
ECO 415	Cases in Corporation Finance
ECO 416	Advanced Corporation Finance
ECO 417	Derivative Securities
ECO 418	Bond Markets
ECO 488	Internship
ECO 495	Project
ECO 499	Independent Study

All College Electives ..... 36 cr

Total Required Credits ..... 123 cr

## ELECTRICAL ENGINEERING TECHNOLOGY, ELECTRONICS\*

(0820)

### Technology Department

#### Bachelor of Technology (HEGIS 0925)

#### Accrediting Board for Engineering and Technology (ABET) Accredited\*\*

*Charles A. Beasley, Chair*

*Peter S. Pawlik, Coordinator*

Upton Hall 315 (716) 878-6017

Electrical engineering technologists who specialize in electronics are employed in the design, testing, fabrication, and application of solid state circuits and systems (both digital and analog), microwave systems, and control systems. This includes consumer products as well as industrial electronics and computer equipment.

**Special Admission Requirements:** Although this program is primarily a transfer program for students with an A.A.S. in the technologies, freshmen and sophomores are also admitted.

\*Also available through evening study

General Education Requirements ..... 24 cr

Arts and humanities (6 cr)
Written and oral communications (9 cr)
Social sciences (9 cr)

Total Required Credits in Mathematics and Physical Sciences ..... 24 cr

Mathematics (9 cr)
Physics (6 cr)
Chemistry (6 cr)
Computer sciences (3 cr)

Total Required Credits in Technical Sciences ..... 18 cr

ENT 300	Analytical Methods for Technologists
ENT 301	Mechanics I
ENT 302	Mechanics II

ENT 331	Electrical Circuits and Devices I
ENT 332	Electrical Circuits and Devices II
ENT 313	Computer Methods in Technology

Total Required Credits in Technical Specialty ..... 30 cr

ENT 341	Electronics
ENT 342	Networks
ENT 351	Electronics Circuit Analysis and Design I
ENT 352	Electronics Circuit Analysis and Design II
ENT 431	Digital Systems I
ENT 432	Digital Systems II
ENT 441	Electromagnetic Fields and Waves
ENT 442	Microwave Techniques
ENT 461	Control Technology I
ENT 462	Control Technology II

Technical Electives ..... 12 cr

All College Electives ..... 16 cr

Total Required Credits ..... 124 cr

\*\*Accreditation Board for Engineering Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202. (410) 347-7700.

## ELECTRICAL ENGINEERING TECHNOLOGY, POWER AND MACHINES\*

(0820)

### Technology Department

#### Bachelor of Technology (HEGIS 0925)

#### Accrediting Board for Engineering and Technology (ABET) Accredited\*\*

*Charles A. Beasley, Chair*

*Peter S. Pawlik, Coordinator*

Upton Hall 315 (716) 878-6017

Electrical engineering technologists who specialize in power and machines are employed in the design, testing, manufacture and application of electrical machinery, electrical power systems, and control systems. They are diversified individuals who can fill the many industrial positions which require a knowledge of both mechanical and electrical technology.

**Admission Requirements:** Although this is primarily a transfer program for students with an A.A.S. in the technologies, freshmen and sophomores are also admitted.

\*Also available through evening study

General Education Requirements ..... 24 cr

Arts and humanities (6 cr)
Written and oral communications (9 cr)
Social sciences (9 cr)

Total Required Credits in Mathematics and Physical Sciences ..... 24 cr

Mathematics (9 cr)
Physics (6 cr)
Chemistry (6 cr)
Computer sciences (3 cr)

Total Required Credits in Technical Sciences ..... 18 cr

ENT 300	Analytical Methods for Technologists
ENT 301	Mechanics I
ENT 302	Mechanics II
ENT 331	Electrical Circuits and Devices I
ENT 332	Electrical Circuits and Devices II
ENT 313	Computer Methods in Technology

Total Required Credits in Technical Specialty ..... 36 cr

TEC 101	Technical Drawing
ENT 311	Thermodynamics
ENT 312	Fluid Mechanics
ENT 341	Electronics
ENT 342	Networks
ENT 371	Electro-Mechanical Machines
ENT 431	Digital Systems I
ENT 432	Digital Systems II
ENT 461	Control Technology I
ENT 462	Control Technology II
ENT 471	Electrical Power Systems I
ENT 472	Electrical Power Systems II

Technical Electives ..... 6 cr

All College Electives ..... 16 cr

Total Required Credits ..... 124 cr

\*\*Accreditation Board for Engineering Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202. (410) 347-7700.

## ELEMENTARY EDUCATION (PRE-K-6)

(0200)

### Elementary Education and Reading Department

#### Bachelor of Science (HEGIS 0802)

#### National Council for Accreditation of Teacher Education (NCATE) Accredited

*Maria A. Cefrano, Chair*

Bacon Hall 302 (716) 878-5916

**Admission Requirements:** To be considered for admission into elementary education, a student must have successfully completed at least 45 credits, completed the English and math requirements for the college, have a cumulative GPA of at least 2.5, and complete an application for admission to the program. Elementary education students may not enroll in EDU 314, EDU 315, EDU 401, or EDU 402 unless they have a cumulative GPA of at least 2.5.

Elementary education majors must complete one year of college-level study of one language other than English. Normally two years of high school study of one language is equivalent to one year of college-level work.

Elementary education majors must complete a distribution requirement of at least six credits in each of the following areas: English, mathematics, science, and social studies. Also, EXE 100, a three-credit course in exceptional education or its equivalent, must be successfully completed.

Graduates in elementary education will be recommended for New York State provisional certification to teach Pre-K through grade 6.

Students in the elementary education program are provided with a developmental program of supervised teaching experiences with children of various age levels in different types of schools.

**Note: New York State Teacher Certification requirements are changing. Please call the department for specific requirements.**

**Academic Concentrations:** Students enrolled in the Elementary Education Program are required to complete an academic concentration in addition to the professional program requirements. The concentration is designed to broaden a student's academic background. Descriptions of the approved concentrations can be found in the Elementary Education Handbook available on the department's Web page or from the department office. Students must register their choice of concentration with the department office. See faculty adviser for further information.

**Student Teaching:** Eligibility for student teaching is determined and placement is made by the Elementary Education and Reading Department.

Student teaching experiences are provided in cooperating public schools in the college community. It is expected that students will have experiences at the primary and intermediate levels and in urban and sub-

urban schools. Students enrolled in student teaching devote full time to student teaching.

Prior written approval must be obtained from the chair of the Elementary Education and Reading Department for a student to enroll for any other college credit work during a student teaching assignment except for EDU 402. All students anticipating a student teaching assignment must show proof of having a test for TB within six months of the assignment. Results of the test must be filed at the Health Center.

**Transfer Students:** Students transferring to the Elementary Education Program as juniors wishing to complete their program in four semesters should plan their schedules of coursework in education carefully. It is important to note that EDU 314 and EDU 315 may not be taken concurrently.

**ECC Joint Program:** In 1990 Buffalo State College and Erie Community College-City Campus entered into a Joint Program in Teacher Preparation for Elementary Education, Pre K-6, to facilitate the transfer movement of minority students into the profession. Students must apply to the program during their first term at ECC-City Campus, be interviewed and formally accepted into the Joint Teacher Preparation Program at ECC, follow the prescribed curriculum of the program, maintain continuous enrollment, complete an A.A. degree in liberal arts and sciences, humanities, and social science, and maintain the appropriate GPA as outlined in the collaborative agreement. A Bachelor of Science in Elementary Education, Pre K-6, is awarded upon completion. Students considering this unique transfer arrangement should contact the Admissions Office at ECC-City Campus within their first term at the community college for specific curriculum and entrance requirements.

**Extended Certification (HEGIS 0804.01-07):** Students can earn degrees and extend certification to teach in the junior high school grades (7-9) in the areas of English, social studies, mathematics, general science, French, and Spanish. To do so, they will take additional methods and subject matter courses pertaining to their specific area and complete student teaching in the selected academic subject in the early secondary grades. Students' advisers will be from the elementary education program. However, students should consult with the coordinator of secondary education for their academic area of the extension.

General Education Requirements ..... 42 cr

Total Required Credits in Elementary Education ..... 36 cr

EDF 202	Child Development and Education <sup>1</sup>
EDF 203	School and Society <sup>1</sup>
EDF 302	Educational Psychology: Elementary Education <sup>1</sup>
EDU 314	Teaching Reading and Other Language Arts (6 cr)
EDU 315	Teaching Social Studies, Science, and Mathematics (6 cr)
EDU 401	Practicum in Teaching (12 cr)
EDU 402	Seminar in Education

<sup>1</sup> Offered by the Educational Foundations Department

All College Electives ..... 45 cr

Total Required Credits ..... 123 cr

## ENGLISH

(0705)

### English Department

#### Bachelor of Arts (HEGIS 1501)

*Craig G. Werner, Chair*

Ketchum Hall 326 (716) 878-5416

The English Program offers four areas of service: the enhancement of writing skills, electives to satisfy general education requirements, a liberal arts English major, and a secondary education major.

General Education Requirements ..... 42 cr

Total Required Credits in English ..... 42 cr  
(27 credits must be upper division)



## ENGLISH (CONTINUED)

### A. Required Courses (15 cr) Choose one from each area:

#### Literary Criticism

ENG 250 Literary Criticism

#### Advanced Writing

ENG 301 Advanced Composition

OR

ENG 305 Creative Writing: Narrative

OR

ENG 306 Creative Writing: Poetry

OR

ENG 402 Advanced Creative Writing: Narrative

OR

ENG 403 Advanced Creative Writing: Poetry

#### Major Figure

ENG 315 Shakespeare I

OR

ENG 316 Shakespeare II

OR

ENG 411 Chaucer

OR

ENG 413 Milton

#### Linguistics

ENG 470 Foundations of Language

OR

ENG 472 English Grammars

#### Senior Seminar

ENG 490 English Seminar

### B. Area Courses in English (27 cr)

- Three** courses in British literature prior to 1900, at least one before 1800. Pre-1800 options: ENG 110, ENG 411, ENG 413, ENG 415, ENG 416, ENG 417. Other options: ENG 111, ENG 418, ENG 419, ENG 420 OR ENG 421. (If students use ENG 411 or ENG 413 to satisfy their Major Figure requirement (see above), they cannot use it to fulfill their pre-1800 requirement.)
- Three** courses in American literature, at least one prior to 1900: Pre-1900 options: ENG 140, ENG 441, ENG 442. Other options: ENG 141, ENG 240 OR ENG 241, ENG 280, ENG 354, ENG 443, ENG 444. (At least one of these must be upper division.)
- Two** courses in world literature: Options: ENG 130, ENG 131, ENG 230, ENG 310, ENG 330, ENG 331, ENG 332, ENG 341, ENG 345, ENG 350, ENG 351.
- One** course in twentieth-century literature: Options: ENG 252, ENG 253, ENG 345, ENG 351, ENG 422, ENG 454, ENG 455. (If ENG 345 and/or ENG 351 are taken to fulfill the world literature requirement, they cannot fulfill this requirement.)

Note: Other courses such as topics courses, when appropriate, can also fulfill major requirements. Discuss questions with adviser.

Foreign Language Requirement ..... 0-12 cr

All College Electives ..... 27-39 cr

Total Required Credits ..... 123 cr

## ENGLISH EDUCATION (7-12)

(0610)

### English Department

Bachelor of Science (HEGIS 1501.01)

National Council for Accreditation of Teacher Education

(NCATE) Accredited

Craig G. Werner, Chair

Ketchum Hall 326 (716) 878-5416

Note: New York State Teacher Certification requirements are changing. Please call the department for specific requirements.

General Education Requirements ..... 42 cr

Total Required Credits in English ..... 42 cr  
(27 credits must be 300- or 400-level)

### A. Required Courses (15 cr)

#### Young Adult Literature

ENG 461 Young Adult Literature

#### Advanced Writing

ENG 301 Advanced Composition

OR

ENG 305 Creative Writing: Narrative

OR

ENG 306 Creative Writing: Poetry

OR

ENG 402 Advanced Creative Writing: Narrative

OR

ENG 403 Advanced Creative Writing: Poetry

#### Major Figure

ENG 315 Shakespeare I

OR

ENG 316 Shakespeare II

#### Linguistics

ENG 470 Foundations of Language

OR

ENG 472 English Grammars

#### Ethnic American Literature

ENG 354 Ethnic American Minority Literature

### B. Area Courses in Literature (27 cr)

- Three** courses in British literature, at least one prior to 1800. Pre-1800 options: ENG 110, ENG 411, ENG 413, ENG 415, ENG 416, ENG 417. Other options: ENG 111, ENG 418, ENG 419, ENG 420, or ENG 421.
- Three** courses in American literature, at least one prior to 1900: Pre-1900 options: ENG 140, ENG 441, ENG 442. Other options: ENG 141, ENG 240 OR ENG 241, ENG 280, ENG 443, ENG 444. (At least one of these must be upper division.)
- One** course in world literature: Options: ENG 130, ENG 131, ENG 230, ENG 310, ENG 330, ENG 331, ENG 332, ENG 341, ENG 345, ENG 350, ENG 351.
- Two** electives in literature: Students may choose from any of the literature courses above, and from the following:  
ENG 151 Introduction to Poetry  
ENG 231 Women in Literature  
ENG 250 Literary Criticism  
ENG 252 Twentieth-Century Literature I  
ENG 253 Twentieth-Century Literature II  
ENG 356 Futuristic Fiction

Note: Other courses, such as topics courses, when appropriate, can also fulfill major requirements. Discuss questions with adviser.

Total Required Credits in Professional Education ..... 33 cr

ENG 200/SED 200 Field Experience in Secondary English Education  
EDF 303/SED 303 Educational Psychology for Teachers of Adolescents  
EDF 403/SED 403 Historical and Philosophical Forces Influencing Secondary Education

EDU 416/SED 416 Teaching Reading in Secondary Schools  
ENG 309/SED 309 Teaching and Evaluating Writing  
ENG 311 Teaching Language  
ENG 462/SED 462 Methods and Materials in the Teaching of English  
ENG 464/SED 464 Student Teaching in Middle/Junior High School English  
ENG 465/SED 465 Student Teaching in Senior High School English<sup>1</sup>

<sup>1</sup> ENG/SED 200, EDF/SED 303, EDU/SED 416, EDF/SED 403, ENG/SED 309, ENG 311, and ENG/SED 462 are prerequisites for ENG/SED 464 and ENG/SED 465. One year of college-level study of a foreign language or equivalent.

### Admission Requirements to the Professional Education Block

2.0 GPA in all Buffalo State courses  
2.5 GPA in English courses with no grade below "C"  
To student teach: 2.5 GPA in the professional education courses with no grade below "C."

All College Electives ..... 6 cr

Total Required Credits ..... 123 cr

## EXCEPTIONAL EDUCATION

Single Certification Program—Special Education (0300)  
Dual Certification Program—Teachers of Special Education  
and Elementary Education (0299)

### Exceptional Education Department

Bachelor of Science in Education (HEGIS 0808)

National Council for Accreditation of Teacher Education

(NCATE) Accredited

Sarita C. Samora, Interim Chair

Ketchum Hall 202 (716) 878-5611

Undergraduate majors in exceptional education study within a cross-categorical program focusing on the education of newborns to 21-year-olds who have a variety of regular and special instructional needs. Included are students in disability groups traditionally associated with mental retardation, physical/neurological disabilities, and learning and behavioral problems.

Graduates of the program typically obtain positions as teachers in resource rooms, self-contained classrooms, special schools, residential facilities, or as consultant teachers in regular education settings. Students who pursue provisional certification in both special education and elementary education are particularly well qualified to work with students with special needs in integrated education settings. Exceptional education majors are recommended for provisional certification<sup>1</sup> as Teacher of Special Education in New York State.

**Dual Certification (0299):** Students in exceptional education may choose to complete additional course work to be recommended for provisional certification<sup>1</sup> as Teacher of Elementary Education (N-6) in New York State, as well as being recommended for provisional certification<sup>1</sup> as Teacher of Special Education in New York State. Completion of additional requirements for certification in elementary education may require an additional semester or more beyond the baccalaureate.

**Fredonia Joint Program:** A joint degree program is offered with State University College at Fredonia in which Fredonia students attend Buffalo State for two or more semesters as visiting students to complete course work for certification in special education. Students are awarded the B.S. in Elementary Education from State University College at Fredonia.

**Minors:** The department offers two minors for non-exceptional education majors. One, exceptional education, focuses on teaching individuals with disabilities. The other, exceptionality, is an interdisciplinary minor devoted to studying types of disabilities and theories of remediation.

Acceptance of minors is determined on a space-available basis.

**Admission Requirements:** Students must provide evidence of potential for success in order to be admitted to the Exceptional Education Department. Entering freshmen demonstrate this potential through a point system established by the department in cooperation with the Admissions Office. The point system includes criteria related to high school average, rank in class, SAT scores, and completion of a regents diploma. Transfer students and matriculated students demonstrate potential for success through the grade point average (GPA) earned in college coursework. Students with a 2.6 GPA (based on a 4.0 system) and above will generally be granted admission. Students with a 2.4-2.59 GPA will be requested to submit supporting documentation such as letters of reference and statements referring to experience and purpose to be considered for admission. Students with a GPA between 2.0 and 2.4 will be considered for admission only following a special review.

<sup>1</sup> Candidates for provisional certification in Special Education must achieve passing scores on the Liberal Arts and Sciences Test (LAST) and the Assessment of Teaching Skills-Written (ATS-W) of the New York State Teacher Certification Examination (NYSTCE).

**Note: New York State Teacher Certification requirements are changing. Please call the department for specific requirements.**

General Education Requirements ..... 42 cr

Total Required Credits in Exceptional Education ..... 36 cr

EXE 100 Nature and Needs of Individuals with Special Needs  
EXE 245 Community Service with Individuals with Special Needs  
EXE 306 Behavior Management  
EXE 320 Educational Evaluation for Special Education  
EXE 330 Individuals with Mild Disabilities  
EXE 331 Individuals with Moderate/Severe/Multiple Disabilities  
EXE 340 Curriculum for Individuals with Mild Disabilities  
EXE 341 Curriculum for Individuals with Moderate/Severe/Multiple Disabilities  
EXE 385 Observation and Participation in Special Education (6 cr)  
EXE 420 Practicum in Special Education (6 cr)

Total Required Credits in Professional Education ..... 27 cr

EDF 202 Child Development and Education  
EDF 203 School and Society  
EDF 302 Educational Psychology and Elementary Education  
EDU 314 Teaching Reading and Language Arts (6 cr)  
EDU 315 Teaching Science, Social Studies, and Math (6 cr)  
EDU 404 Practicum in Elementary School Teaching (6 cr)

All College Electives ..... 18 cr

Total Required Credits ..... 123 cr

## FASHION AND TEXTILE TECHNOLOGY

(0401)

### Nutrition, Hospitality, and Fashion Department

Bachelor of Science (HEGIS 1303)

Dr. Suk Y. Oh, Chair

Caudell Hall 107 (716) 878-5913

Buffalo State's Fashion and Textile Technology Program is the only baccalaureate program in Western New York that offers career preparation for the global, multi-faceted fashion industry. Faculty expertise, continuous updating of technology-based curriculum, and industry partnerships contribute to the strength of the program. Class sizes are small, allowing individual attention. Students are encouraged to participate in extracurricular programmatic activities and regional and national competitions. Students have achieved top honors in national apparel (Bobbin Show) and textile design - Computer Integrated Textile Design Association (CITDA) competitions. Internships are available in the Buffalo area and elsewhere in the United States.

**Career Information:** The Fashion and Textile Technology Program is designed to prepare graduates to work in various segments of the fashion industry such as textiles, retail management, manufacturer's representative, CAD textile/apparel design, apparel production, CAD/CAM product development, quality control, testing laboratories, fashion merchandising, and private and government agencies that are involved in setting standards for textile/apparel safety and performance. Students may enter additional fields such as visual display, historic costume or textile, fashion publication, theater costuming, and fashion consultation and coordination. Advanced study is often an aid to career progression, and graduate programs in the different concentrations are available in a number of colleges and universities.

Graduates are working in companies such as Abercrombie & Fitch, GAP Kids, Talbots, Intercontinental Branded Apparel, Lord & Taylor, Steinmart, Acts Testing Labs, Toppers, Victoria's Secret, Tommy Hilffiger, and Springs Industries.

**Program Information:** The curriculum for the Fashion and Textile Technology Program is divided into two parts: the required 24 credits of core coursework, and one or more specialized concentrations: Fashion Merchandising, Apparel Design, Product Development, or Textiles for Industry.



FASHION AND TEXTILE TECHNOLOGY  
(CONTINUED)

Fashion and Textile Technology majors may spend a year studying their specialty at the Fashion Institute of Technology (FIT) in New York City in a "three-one" program, earning a B.S. from Buffalo State College and an associate's degree from FIT. North Carolina State University and other institutions have exchange programs.

*Scholarships and Financial Aid:* Students may apply for departmental and Phi Upsilon Omicron scholarships. Financial assistance through the college is also available.

General Education Requirements ..... 42 cr  
Total Required Credits in Fashion Technology ..... 42 cr

- A. Required Core (24 cr)
- |         |  |
|---------|--|
| FTT 107 | Survey of the Fashion and Textile Industry |
|         | OR   |
| FTT 108 | Fashion Fundamentals                       |
| FTT 206 | Introduction to Textiles                   |
| FTT 336 | Textile Evaluation                         |
| FTT 310 | Apparel Production                         |
| FTT 358 | Apparel/Textiles Forecasting and Promotion |
| FTT 411 | CAM:Apparel Manufacturing                  |
|         | OR   |
| FTT 412 | CAD:Apparel/Textile Design for Industry    |
| FTT 450 | Issues in Apparel/Textile Industry         |
| FTT 451 | Senior Project                             |
|         | OR   |
| FTT 488 | Internship                                 |

B. Select One or More Concentrations:

- Fashion Merchandising Concentration (18 cr)
- |         |                                       |
|---------|---------------------------------------|
| FTT 150 | Introduction to Fashion Merchandising |
| FTT 250 | Principles and Practices in Fashion   |
|         | Buying and Merchandising Management   |
| FTT 350 | Fashion Merchandising Applications    |
| BUS 212 | Essentials of Accounting              |
| BUS 324 | Business Communications               |
| BUS 325 | Human Resource Management             |

- Apparel Design Concentration (18 cr)
- |             |  |
|-------------|--|
| FTT 109     | Design Room Techniques                       |
| FTT/THA 303 | Fashion Illustration                         |
| FTT 325     | Drafting and Grading Techniques              |
| FTT 326     | Apparel Design I: Flat Pattern               |
| FTT 327     | Apparel Design II: Computerized Flat Pattern |
| FTT 328     | Apparel Design III: Draping                  |

- Product Development Concentration (18 cr)
- |         |  |
|---------|--|
| FTT 325 | Drafting and Grading Techniques              |
| FTT 326 | Apparel Design I: Flat Pattern               |
| FTT 327 | Apparel Design II: Computerized Flat Pattern |
| FTT 410 | Advanced Apparel Production                  |
| FTT 411 | CAM:Apparel Manufacturing                    |
|         | OR   |
| FTT 412 | CAD:Apparel/Textile Design for Industry      |
| TEC 200 | Total Quality Management                     |

- Textiles for Industry Concentration (18 cr)
- |             |                              |
|-------------|------------------------------|
| FTT/THA 303 | Fashion Illustration         |
| FTT 304     | Print Rendering for Industry |
| FTT 413     | CAD Weave                    |
| FTT 449     | History of Textiles          |
| DES 240     | Design in Fibers - Weaving   |
| DES 307     | Advanced Design I            |

Individuals who have extensive work experience in fashion merchandising, apparel design, product development, or textiles for industry are encouraged to explore earning college credit by course challenge or experiential learning.

Recommended Fashion Technology Electives

- |         |  |
|---------|--|
| FTT 330 | Clothing for the Disabled              |
| FTT 347 | Clothing in Relation to Human Behavior |
| FTT 348 | History of Costume                     |
| FTT 449 | History of Textiles                    |
| FTT 452 | Fashion Show Production                |

All College Electives .....39 cr  
Total Required Credits ..... 123 cr

FINE ARTS

See Individual Majors

- Art
- Art History
- Painting
- Photography
- Printmaking
- Sculpture

FORENSIC CHEMISTRY

(0773)

Chemistry Department

Bachelor of Science (HEGIS 1999.20)

*Dr. Gregory W. Ebert, Chair*

Science Building 313 (716) 878-5204

Forensic chemistry is a program of professional study whose graduates are prepared to assume entry-level positions as forensic chemists in police laboratories at the local, state, or federal levels.

*Admission Requirements:* Prospective majors must complete CHE 111-CHE 112 (or the equivalent) with grades of "C" or better before applying to the program. Students not meeting these requirements will be accepted into the Pre-Forensic Chemistry Program (0774) and will be formally admitted to the major upon completion of the previously stated requirements.

*Admission Recommendations:* Transfer students from two-year colleges should also have earned credit for courses equivalent to CHE 201-CHE 202, CHE 203-CHE 204, CHE 301, MAT 126, PHY 107-PHY 108, CRJ 101 and CRJ 201 in order to avoid possible delay in the completion of the degree program.

General Education Requirements ..... 42 cr  
Total Required Credits in Chemistry ..... 29 cr

- |                 |  |
|-----------------|--|
| CHE 201-CHE 202 | Organic Chemistry I-II (lectures)      |
| CHE 203-CHE 204 | Organic Chemistry I-II (labs) (1-1 cr) |
| CHE 301         | Analytical Chemistry (4 cr)            |
| CHE 322         | Biological Chemistry (4 cr)            |
| CHE 331         | Principles of Physical Chemistry       |
| CHE 403         | Instrumental Analysis (4 cr)           |
| CHE 412         | Internship                             |
|                 | Chemistry Elective                     |

Transfer students must complete a minimum of 10 credits in chemistry at Buffalo State College. Chemistry courses taken elsewhere may be substituted for similar courses at Buffalo State College only if they have the same equivalent prerequisite. Chemistry courses not meeting this criterion may be transferred as elective credit.

- Total Required Credits in Criminal Justice ..... 12 cr
- |         |                                       |
|---------|---------------------------------------|
| CRJ 101 | Introduction to Criminal Justice      |
| CRJ 201 | Criminal Law and Procedure            |
| CRJ 315 | Research Design in Criminal Justice   |
| CRJ 317 | U.S. Constitution and Civil Liberties |

Required Credits in Other Fields

- |                 |   |
|-----------------|---|
| MAT 126         | Calculus                                |
| PHY 107-PHY 108 | General Physics I-II                    |
| MAT 311         | Introductory Probability and Statistics |
|                 | OR                                      |
| ECO 305         | Statistics for Economics                |
|                 | OR                                      |
| PSY 306         | Statistics in Psychological Research    |

All College Electives ..... 40 cr  
Total Required Credits ..... 123 cr

FRENCH EDUCATION (7-12)

(0651)

Foreign Language Department

Bachelor of Science (HEGIS 1102.01)

National Council for Accreditation of Teacher Education

(NCATE) Accredited

*Lucy M. Schwartz, Chair*

Bishop Hall 122 (716) 878-5414

The French-Secondary Education Program enables students to earn provisional certification to teach French in New York State secondary schools. Students develop French language skills and study the structure and sound system of French, the literature and culture of French-speaking peoples, and, in the professional education component, the growth and role of the public school, adolescent development and psychology, and the teaching/learning of foreign languages in school settings. The curriculum includes a series of field experiences. Students must have a GPA of 2.5 (overall and in the major) in order to student teach.

**Note: New York State Certification requirements are changing. Please call the department for specific requirements.**

General Education Requirements ..... 42 cr  
Total Required Credits in French ..... 36 cr

- A. Required Courses (24 cr)
- |                 |                                     |
|-----------------|-------------------------------------|
| FRE 301-FRE 302 | French Conversation and Composition |
| FRE 305         | Spoken French                       |
| FRE 306         | The Civilization of France          |
| FRE 307-FRE 308 | Surveys of French Literature        |
| -FRE 309        | Surveys of French Literature        |
| FRE 415         | Advanced Grammar and Composition    |

- B. Electives (12 cr)
- French courses at the 300- or 400-level selected by advisement

- Total Required Credits in Professional Education ..... 21 cr
- |             |  |
|-------------|--|
| EXE 100     | Nature and Needs of Individuals with Special Needs                                       |
| FLE/SED 200 | Field Experience in Foreign Language Secondary Education                                 |
| EDF 303     | Educational Psychology   |
| EDF 403     | Historical and Philosophical Forces Influencing Secondary Education                      |
| EDU 416     | Teaching Reading in Secondary Schools  |
| FLE/SED 405 | Methods and Materials for Teaching Foreign Languages in Secondary Schools                |
| FLE/SED 406 | Techniques for Teaching and Evaluating Foreign Languages in Middle and Secondary Schools |

- Total Required Credits in Student Teaching ..... 12 cr
- |             |   |
|-------------|---|
| FLE/SED 407 | Student Teaching of Foreign Languages in the Middle/Junior High School (6 cr) |
| FLE/SED 408 | Student Teaching of Foreign Languages in the High School (6 cr)               |

All College Electives ..... 12 cr  
Total Required Credits ..... 123 cr

FRENCH LANGUAGE AND LITERATURE

(0709)

Foreign Language Department

Bachelor of Arts (HEGIS 1102)

*Lucy M. Schwartz, Chair*

Bishop Hall 122 (716) 878-5414

The program is designed to develop the ability to communicate in French and to introduce students to the masterpieces of the literature of France and the most significant aspects of French culture. Students are encouraged to study in France for a semester in an approved program.

General Education Requirements ..... 42 cr  
Total Required Credits in French ..... 36 cr

- A. Required Courses (18 cr)
- |                 |                                     |
|-----------------|-------------------------------------|
| FRE 301-FRE 302 | French Conversation and Composition |
| FRE 307-FRE 308 | Surveys of French Literature        |
| -FRE 309        | Surveys of French Literature        |
| FRE 306         | The Civilization of France          |
- B. Electives Selected by Advisement (18 cr)
- |         |  |
|---------|--|
| FRE 303 | Translation  |
| FRE 305 | Spoken French                                      |
| FRE 331 | French Literature in Translation <sup>1</sup>      |
| FRE 341 | Francophone Literature in Translation <sup>1</sup> |
| FRE 411 | Studies in French Poetry                           |
| FRE 412 | Studies in the French Novel                        |
| FRE 413 | Studies in French Theater                          |
| FRE 415 | Advanced Grammar and Composition                   |
| FRE 416 | Advanced Conversation and Composition              |
| FRE 417 | Business French                                    |
| FRE 496 | Seminar I  |
| FRE 497 | Seminar II   |

Six credits may be selected by advisement in courses with a direct relationship to French studies (comparative literature, history, history of art, philosophy).

<sup>1</sup> These courses may be taken as a part of the French major only with the instructor's permission, the chair's permission, and only if all the work for the course is done in French.

All College Electives ..... 45 cr  
Total Required Credits ..... 123 cr

GENERAL STUDIES\*

(0556)

General Studies Interdisciplinary Unit

Bachelor of Science (HEGIS 4901)

*Margaret A. Shaw, Coordinator*

Twin Rise 100 (716) 878-5906

The General Studies Program at Buffalo State allows mature students to develop a flexible, wide-ranging baccalaureate degree program which meets their academic needs as well as the needs of their careers. Through the General Studies Interdisciplinary Unit and appropriate faculty consultation, students develop their own academic plans of study, consisting of a combination of academic fields.

The General Studies degree offers students a choice between two distinct options. Students may combine any two minor programs (Track I), or develop their own program of study by drawing upon the offerings of two to four different academic fields (Track II).

The coordinator of the General Studies Interdisciplinary Unit (GSIU) coordinates the guidance and academic advisement which is central to the degree's success. Students in both tracks also complete all college-



## GENERAL STUDIES (CONTINUED)

wide degree expectations: the general education requirement, writing and mathematics proficiency, and between 16 and 22 credits of unrestricted electives. Both tracks require a senior level integrating research project as a culminating degree experience.

Student academic advisement is fundamental to the development and success of a student's program. It is therefore mandatory and conducted one-on-one. Students work closely with the coordinator of the GSIU and other appropriate faculty to develop a program suitable to their particular interests.

**Admission Requirements:** Students must have a minimum 2.5 GPA and have undertaken no more than 66 credits. Transfer students with an associate's degree will be eligible to apply during the first semester of residency at Buffalo State College.

**Graduation Requirements:** 2.0 overall GPA and 2.5 GPA for all work within the major area.

\*Also available through evening study

General Education Requirements ..... 42 cr

Total Required Credits in General Studies

Track I: Two minors ..... 36-42 cr  
OR

Track II: Two to four academic fields, maximum  
of six courses per discipline ..... 36-42 cr

Culminating Project 495 ..... 3 cr

All College Electives ..... 38-42 cr

Total Required Credits ..... 123 cr

## GEOGRAPHY

(0715)

Geography and Planning Department  
Bachelor of Arts (HEGIS 2206)

Raymond W. Waxmonsky, Chair  
Classroom Building A213 (716) 878-6216

Geography is designed to provide students with a basic foundation of the discipline while allowing them to focus on one of two major geographic subject areas. The physical geography concentration emphasizes the interaction of man with the natural environment. The human geography concentration emphasizes man's social, cultural, and urban patterns.

General Education Requirements ..... 42 cr

Total Required Credits in Geography ..... 36 cr

### A. Required Courses (27 cr)

GEG 101	World Natural Environments
GEG 102	Man's Cultural Environment
GEG 305	Principles of Economic Geography
GEG 309	Introduction to Urban Geography
GEG 413	Cartography
GEG 430	Seminar in Geography and Planning Applications

Choose one of the following:

GEG 199	Computers in Social Science
CIS 101	Computer Fundamentals
CIS 201	Introduction to Microcomputer Applications

Choose one of the following:

ECO 305	Statistics for Economics
MAT 311	Introductory Probability and Statistics

Choose one of the following:

GEG 360	Geography of Asia
GEG 361	Geography of Africa
GEG 362	Geography of the United States and Canada
GEG 363	Geography of Middle America
GEG 364	Geography of Europe

In addition, geography majors are required to select one of two concentrations to complete an additional nine credits of geography.

### B. Physical Geography Concentration Electives (9 cr) (To be selected with advisement)

GEG 303	World Climatology
GEG 307	Conservation and Environmental Management
GEG 322	Geography of World Hunger
GEG 370	Principles of Water Resource Planning
GEG 375	Principles of Hydrology
GEG 365	Soils and Soil Management
GEG 415	Proseminar
GEG 420	Economic Evaluation of Water Resources
GEG 425	Computer Mapping and Geographic Information Systems
GES 307	Geomorphology
GES 421	Dynamics of Sedimentation
GES 452	Hydrogeology

### Human Geography Concentration Electives (9 cr) (To be selected with advisement)

GEG 307	Conservation and Environmental Management
GEG 310	Geography of Transportation
GEG 320	Historical Geography of the United States
GEG 322	Geography of World Hunger
GEG 350	Comparative Canadian - U.S. Metropolitan Systems
GEG 357	Geography of Buffalo and the Niagara Frontier
GEG 405	Advanced Urban Geography
GEG 409	Geography of Manufacturing
GEG 415	Proseminar
GEG 425	Computer Mapping and Geographic Information Systems

Foreign Language Requirement ..... 0-12 cr

All College Electives ..... 33-45 cr

Total Required Credits ..... 123 cr

## GEOLOGY

(0727)

Earth Sciences and Science Education Department  
Bachelor of Arts (HEGIS 1914)

Stephen J. Vermette, Chair  
Science Building 271 (716) 878-6731

The Geology Program offers students a variety of opportunities to investigate the materials that constitute and the processes that shape the earth. Classroom, laboratory, and field work provide a base for careers related to energy, the environment, and the exploration for and production of petroleum and mineral resources.

A departmental honors program also is available. Students should contact the department for additional information.

General Education Requirements ..... 42 cr

Total Required Credits in Geology ..... 40-42 cr

### A. Required Courses (33 cr)

GES 101	Introductory Geology
GES 102	Historical Geology
GES 103	Introductory Geology Lab (1 cr)
GES 300	Sedimentology
GES 301	Stratigraphy

GES 302	Invertebrate Paleontology (4 cr)
GES 303	Mineralogy and Petrology (4 cr)
GES 308	Structural Geology (4 cr)
Two semesters of chemistry: CHE 111 and CHE 112 or equivalent (8 cr)	

### B. Electives Selected by Advisement (9 cr)

Credit will be allowed for any course in geology, astronomy, oceanography, or atmospheric science.

Foreign Language Requirement ..... 0-12 cr

All College Electives ..... 39-41 cr

Total Required Credits ..... 123 cr

## HEALTH AND WELLNESS

(0739)

Health and Wellness Department

Bachelor of Science (HEGIS 0837)

Chester J. Zelasko, Chair

Houston Gymnasium 205 (716) 878-6501

The Health and Wellness Program prepares undergraduate students to assume roles as health/wellness professionals in private businesses and industries, community organizations, and health care organizations. Students will be able to administer effective health/wellness programs in organizations that promote preventive medicine and positive lifestyle habits. Concentrations are available in Adult Fitness, Social Issues, and Site-Based Health Promotion.

**Admission Requirements:** The Health and Wellness Department will accept incoming freshmen and junior college transfers if they declare their intentions prior to completing their first semester at Buffalo State College. All other applicants must have a minimum 2.5 GPA

General Education Requirements ..... 42 cr

Total Required Credits in Health/Wellness ..... 42 cr

### A. Required Courses (33 cr)

HEW 204	Personal and Community Health
HEW 310	Advanced First Aid and Emergency Care
HEW 305	Community Health and Wellness
HEW 312	Methods and Materials in Health and Wellness
HEW 225	Introduction to Disease Prevention
HEW 302	Exercise Principles and Techniques
HEW 401	Assessment and Evaluation in Health and Wellness
HEW 412	Health/Wellness Programming
BIO 308	Human Anatomy and Physiology <sup>1</sup>

One of the following:

NFS 105	Foods and People: Interactions and Issues
NFS 334	Contemporary Nutrition
NFS 335	Nutritional Needs and Concerns During the Lifespan

<sup>1</sup>BIO 100 Principles of Biology is a prerequisite for BIO 308

### B. One of the Following Concentrations (9 cr)

#### Adult Fitness Concentration

Select three courses:

HEW 301	Fundamentals of Kinesiology
HEW 307	Exercise, Fitness, and Nutrition
HEW 345	Wellness, Fitness, and Aging
HEW 488	Internship

#### Social Issues Concentration

Select three courses:

HEW 308	Women's Health Issues
HEW 411	Critical Issues in Health and Wellness
HEW 320	Psychoactive Drugs and Health
OR	
HEW 425	Alcohol Problems

#### Site-Based Health Promotion Concentration

Select three courses:

HEW 303	Planning, Management, and Evaluations of Health and Wellness Facilities
HEW 488	Internship
HEW 320	Psychoactive Drugs and Health
NFS 410	Fundamentals of Nutrition Education

All College Electives ..... 39 cr

Total Required Credits ..... 123 cr

## HISTORY

(0716)

History and Social Studies Education Department

Bachelor of Arts (HEGIS 2205)

Edward O. Smith Jr., Chair

Classroom Building C205 (716) 878-5412

The program ensures both a knowledge and an understanding of the foundations of the development of humankind, stimulates thinking about interaction of ideas, develops facility with written and verbal expression, increases confidence in articulating ideas, and encourages the critical awareness of self so important to an educated individual. Special emphasis is placed on the development of the abilities to analyze, synthesize, and communicate.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements ..... 42 cr

Total Required Credits in History<sup>1</sup> ..... 36 cr

Two basic American history courses (6 cr)
Two basic European history courses (6 cr)
Two Third World history courses (6 cr)
Five upper-division (300- or 400-level) history courses (15 cr)
Seminar in history (3 cr)

<sup>1</sup>History majors may count only two of the HIS 300 or HIS 389 topics courses toward the fulfillment of their history major requirements. No restriction on HIS 300 or HIS 389 courses taken as electives.

Foreign Language Requirement ..... 0-12 cr

All College Electives ..... 33-45 cr

Total Required Credits ..... 123 cr

## HOSPITALITY ADMINISTRATION

(0437)

Nutrition, Hospitality, and Fashion Department

Bachelor of Science (HEGIS 1307)

Suk Y. Ob, Chair

Caudell Hall 107 (716) 878-5913

The hospitality administration curriculum prepares graduates for management positions in various aspects of the hospitality industry. Career opportunities exist for managers in restaurants, hotels, clubs, catering operations, health care, school food service, sales, production, travel and tourism, and other components of industry/business.

The program mission is to provide a comprehensive education to the diverse student population in all aspects of hospitality management to foster an academic environment that enables faculty and students to pursue intellectual excellence, to nurture the highest standards and rationality, to prepare students to be successful in hospitality-tourism management careers, to facilitate continuing education of the hospitality-tourism professional, and to serve the supporting community by extending appropriate services.



# HOSPITALITY ADMINISTRATION (CONTINUED)

*Admission Requirements:* Transfer or uncommitted students desiring to major in this program must have a minimum GPA of 2.0 on previous college credit.

General Education Requirements ..... 42 cr  
Total Required Credits in Hospitality Administration ..... 42 cr

<b>A. Required Courses (30 cr)</b>	
NFS 110	Introduction to Hospitality and Tourism
NFS 300	Food and Beverage Management
NFS 350	Computer Applications in Hospitality
NFS 370	Cost Controls in Hospitality
NFS 380	Training in Hospitality
NFS 390	Strategic Marketing in Hospitality
NFS 455	Advanced Human Resources Management in Hospitality
NFS 470	Legal Issues in Hospitality
NFS 480	Advanced Hospitality Administration
NFS 485	Seminar in Hospitality

## Select One Concentration:

### Restaurant and Institutional Management Concentration (12 cr)

NFS 100	Multicultural Foods
NFS 200	Sanitation and Safety in Food Service
NFS 334	Contemporary Nutrition
NFS 361	Principles of Management in Food Service

### Hotel Tourism Management Concentration (12 cr)

NFS 368	Hotel Operations
NFS 408	Convention and Meeting Management
NFS 418	Tourism Management
NFS 389	Topics in Hotel Management

Required: 400 Hours of Hospitality-Related Industry Experience

<b>B. Electives in Hospitality Administration</b>	
NFS 100	Multicultural Foods
NFS 110	Introduction to Hospitality and Tourism
NFS 200	Sanitation and Safety in Food Service
NFS 320	Techniques in Alcohol Management
NFS 338	Tourism and World Travel
NFS 340W	Industry Experience
NFS 368	Hotel Operations
NFS 408	Convention and Meeting Management
NFS 418	Tourism Management
NFS 420	Franchising and Entrepreneurship in the Hospitality Industry
NFS 430	Theory and Concepts of Service
NFS 460	Concepts of Strategic Management
NFS 475	Research Methods in Hospitality

All College Electives ..... 37-39 cr

Total Required Credits ..... 123 cr

# HUMANITIES\*

(0717)

**Dean, Faculty of Arts and Humanities**  
**Bachelor of Arts (HEGIS 4903)**

*Susan Mondschein Leist, Coordinator*  
Bishop Hall 223 (716) 878-4439

Humanities is an interdisciplinary program which provides students with a broad liberal arts education and ample opportunity to pursue their own interests.

Humanities majors must:

1. Complete and submit an application form.
2. Be interviewed by the coordinator of the program.
3. Have a minimum GPA of 2.0.

4. Second-semester sophomores or juniors or seniors will normally be expected to have taken a minimum of three courses in humanities, with no grade lower than "C" and at least one grade higher than "C".

\*Also available through evening study

General Education Requirements ..... 42 cr

Total Required Credits in Humanities ..... 36 cr

- Two courses in philosophy (6 cr)
- Three courses in English (9 cr)
- Two courses in foreign language (6 cr)
- Five electives in humanities (philosophy, English, humanities, and/or foreign language) (15 cr)

Foreign Language Requirement ..... 0-12 cr

All College Electives ..... 33-45 cr

Total Required Credits ..... 123 cr

# INDUSTRIAL TECHNOLOGY\*

(0810)

**Technology Department**

**Bachelor of Science (HEGIS 0925)**

**National Association of Industrial Technology**  
**(NAIT) Accreditation**

*Charles A. Beasley, Chair*

Upton Hall 315 (716) 878-6017

*Deborah Rindfuss Ellis, Coordinator*

Upton Hall 314 (716) 878-6018

The Industrial Technology Program, through its two concentrations, provides students with the opportunity to develop a specialty within a broader framework of operations knowledge. By selecting the manufacturing concentration, the student specializes in direct manufacturing support of a technical or managerial nature. Knowledge of management principles, physical sciences, technology of industry, and liberal arts is employed to optimize manufacturing processes, materials, and personnel. The quality concentration allows the student to develop the ability to assist the organization in obtaining the maximum level of quality performance in providing products or services. This concentration requires a professional internship that places the student in a specialty position in a local organization as a culminating activity.

Program graduates have filled positions as industrial engineers, quality assurance specialists, operations supervisors, trainers, and technical sales and marketing specialists.

*Admission Requirements:* Although this program is primarily a transfer program for students with an A.A.S. in the technologies, freshmen and sophomores are also admitted.

\*Also available through evening study

General Education Requirements ..... 36 cr

- Applied Science and Technology (6 cr)
- Art (9 cr)
- Humanities (9 cr)
- Math/ Science (3 cr)
- Social Science (9 cr)

Accreditation Requirements ..... 12 cr

- Core Math (3 cr)
- Core Chemistry (3 cr)
- MAT 124 Pre-Calculus
- PHY 107 General Physics I

Technology Core Requirements ..... 24 cr

- TEC 101 Technical Drawing
- TEC 201 Materials Processing

TEC 311	Materials Science and Testing
TEC 312	Materials Management
TEC 313	Statistical Quality Control
TEC 314	Electro-Mechanical Systems
TEC 402	Ergonomics
TEC 403	Systems Analysis

**Manufacturing Concentration<sup>1</sup> (18 cr)**

TEC400/BUS 320	Marketing
TEC 302	CAD/CAM
TEC 351	Energy Systems
TEC 404W	Industrial Systems Applications
TEC 405W	Manufacturing Technology
TEC 465	Safety Management

**Quality Concentration<sup>1</sup> (18 cr)**

COM 307	Communication and Group Processes
MAT 311	Introductory Probability and Statistics
TEC 200W	Total Quality Management
TEC 321	Measurement Systems
TEC 323	Quality Improvement Through Design of Experiments
TEC 488W	Quality Internship/Externship

<sup>1</sup> Student selects either the Manufacturing or Quality concentration.

All College Electives ..... 33 cr

Total Required Credits ..... 123 cr

# JOURNALISM

(0708)

**Communication Department**

**Bachelor of Arts (HEGIS 0602)**

*Janet E. Ramsey, Chair*

Bishop Hall 210 (716) 878-6008

The Journalism Program is a mix of practical experience and relevant theory. It is tied closely to the professional community and emphasizes realistic and in-the-field experience. Preparation for careers is provided.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements ..... 42 cr

Total Required Credits in Journalism ..... 39 cr

**A. Required Courses (30 cr)**

COM 205	Introduction to Oral Communication
COM 210	Introduction to Writing for the Media
COM 215	Introduction to Visual Communication

Students must receive a 2.6 GPA in the above courses to declare a major in journalism.

COM 303	Writing for Publication
COM 305	Reporting
COM 319	News Editing
COM 325	Feature and Magazine Article Writing
COM 400	Communication Law
COM 415	Computer-Assisted Reporting
COM 450	Communication and Society <sup>1</sup>

<sup>1</sup>COM 450 is required of all students choosing a major in the Communication Department. It must be taken after completion of 90 credits.

**B. Electives Selected by Advisement (9 cr)**

Selected from all 300- and 400-level courses in the Communication Department

Foreign Language Requirement ..... 0-12 cr

All College Electives ..... 30-42 cr

Total Required Credits ..... 123 cr

# MATHEMATICS

(0718)

**Mathematics Department**

**Bachelor of Arts (HEGIS 1701)**

*Tom M. Glambrone, Chair*

Bishop Hall 317 (716) 878-5621

This program is identical to the Mathematics B.S. Program (0719), except for the language requirement.

*Special Admission Requirements:* High school mathematics through Regents Course III is recommended.

General Education Requirements ..... 42 cr

Total Required Credits in Mathematics ..... 39 cr

**A. Required Courses (24 cr)**

MAT 161	Calculus I
MAT 162	Calculus II
MAT 263	Calculus III
MAT 163	Using Technology to Explore Calculus I (1 cr)
MAT 164	Using Technology to Explore Calculus II (1 cr)
MAT 264	Using Technology to Explore Calculus III (1 cr)
MAT 270	Discrete Mathematics
MAT 202	Linear Algebra
MAT 301W	Fundamentals of Abstract Algebra
MAT 381	Probability

**B. Electives Selected by Advisement (15 cr)**

*Choose a sequence of two courses from the following list:*

MAT 301W-MAT 302
MAT 315-MAT 316
MAT 381-MAT 382
MAT 417-MAT 418

*Choose 15 credits from the following list:*

MAT 302	Algebra II
MAT 315	Differential Equations
MAT 316	Intermediate Differential Equations
MAT 322W	Modern Geometry
MAT 351	Elementary Theory of Numbers
MAT 366	Computer Mathematics II
MAT 370	Applied Networks
MAT 382	Topics in Mathematical Statistics
MAT 401	Introduction to Turing Machines and Abstract Computability
MAT 404	Applications of Linear Algebra
MAT 411	Complex Variables
MAT 417	Introduction to Real Analysis I
MAT 418	Introduction to Real Analysis II
MAT 461	Numerical Analysis
MAT 471	Introduction to Topology
MAT 490	Seminar
MAT 495	Project
MAT 499	Independent Study

Foreign Language Requirement ..... 0-12 cr

All College Electives ..... 30-42 cr

Total Required Credits ..... 123 cr



## MATHEMATICS

(0719)

**Mathematics Department**  
**Bachelor of Science (HEGIS 1701)**  
*Tom M. Giambrone, Chair*  
Bishop Hall 317 (716) 878-5621

The Mathematics B.S. Program is directed toward a career goal for computer-related government, industrial, or business employment. It may also provide a basis for entry into graduate school in mathematics or computer science.

**Admission Requirements:** High school mathematics through Regents Course III is recommended.

General Education Requirements ..... 42 cr  
Total Required Credits in Mathematics ..... 39 cr

### A. Required Courses (24 cr)

MAT 161	Calculus I
MAT 162	Calculus II
MAT 263	Calculus III
MAT 163	Using Technology to Explore Calculus I (1 cr)
MAT 164	Using Technology to Explore Calculus II (1 cr)
MAT 264	Using Technology to Explore Calculus III (1 cr)
MAT 270	Discrete Mathematics
MAT 202	Linear Algebra
MAT 301W	Fundamentals of Abstract Algebra
MAT 381	Probability

### B. Electives Selected by Advisement (15 cr)

Choose a sequence of two courses from the following list:

MAT 301W - MAT302  
MAT 315 - MAT 316  
MAT 381 - MAT 382  
MAT 417 - MAT418

Choose 15 credits from the following list:

MAT 302	Algebra II
MAT 315	Differential Equations
MAT 316	Intermediate Differential Equations
MAT 322W	Modern Geometry
MAT 351	Elementary Theory of Numbers
MAT 366	Computer Mathematics II
MAT 370	Applied Networks
MAT 382	Topics in Mathematical Statistics
MAT 401	Introduction to Turing Machines and Abstract Computability
MAT 404	Applications of Linear Algebra
MAT 411	Complex Variables
MAT 417	Introduction to Real Analysis I
MAT 418	Introduction to Real Analysis II
MAT 461	Numerical Analysis
MAT 471	Introduction to Topology
MAT 490	Seminar
MAT 495	Project
MAT 499	Independent Study

All College Electives ..... 42 cr  
Total Required Credits ..... 123 cr

## MATHEMATICS EDUCATION (7-12)

(0721)

**Mathematics Department**  
**Bachelor of Science (HEGIS 1701.01)**  
**National Council for Accreditation of Teacher Education**  
(NCATE) Accredited  
*Tom M. Giambrone, Chair*  
Bishop Hall 317 (716) 878-5621

The Mathematics B.S. Program in Secondary Education is directed to a career goal of teaching. This program includes the course requirements leading to New York State certification.

**Admission Requirements:** High school mathematics through Regents Course III is recommended.

**Note: New York State Teacher Certification requirements are changing. Please call the department for specific requirements.**

General Education Requirements ..... 42 cr  
Total Required Credits in Mathematics ..... 39 cr

### A. Required Courses (27 cr)

MAT 161	Calculus I
MAT 162	Calculus II
MAT 263	Calculus III
MAT 163	Using Technology to Explore Calculus I (1 cr)
MAT 164	Using Technology to Explore Calculus II (1 cr)
MAT 264	Using Technology to Explore Calculus III (1 cr)
MAT 270	Discrete Mathematics
MAT 202	Linear Algebra
MAT 301W	Fundamentals of Abstract Algebra
MAT 322W	Modern Geometry
MAT 381	Probability

### B. Electives (12 cr)

Choose a sequence of two courses from the following:

MAT 301W - MAT302  
MAT 315 - MAT 316  
MAT 381 - MAT 382  
MAT 417 - MAT 418

Choose 12 credits from the following:

MAT 302	Algebra II
MAT 315	Differential Equations
MAT 316	Intermediate Differential Equations
MAT 351	Elementary Theory of Numbers
MAT 366	Computer Mathematics II
MAT 370	Applied Networks
MAT 382	Topics in Mathematical Statistics
MAT 401	Introduction to Turing Machines and Abstract Computability
MAT 404	Applications of Linear Algebra
MAT 411	Complex Variables
MAT 417	Introduction to Real Analysis I
MAT 418	Introduction to Real Analysis II
MAT 461	Numerical Analysis
MAT 471	Introduction to Topology
MAT 490	Seminar
MAT 495	Project
MAT 499	Independent Study

Total Required Credits in Professional Education ..... 30 cr

### A. Required Courses (15 cr)

SST/MED 200	Field Experience: Secondary Education and Related Careers
EDF 303	Educational Psychology
MED 383W	Learning and Teaching of Problem Solving
MED/SED 308W	Methods in Teaching of Secondary School Mathematics
EDF 403	Historical and Philosophical Forces Influencing Secondary Education

### B. Electives (3 cr)

Choose one educational elective from the following:

MED 307	Uses of Technical Aids in the Teaching of Mathematics
EDF 321	The Teacher as Drug Educator
EDF 346	Teenage Sexuality
EDF 353	Human Development During Adolescence
EDF 410	Philosophy of Education
EDF 412	Comparative Education

### C. Student Teaching (12 cr)

MED/SED 407	Practice Teaching Mathematics in Junior High/Middle School
MED/SED 408	Practice Teaching Mathematics in Senior High School

### D. One Year College-level Study of Foreign Language or Equivalent (0-6 cr)

All College Electives ..... 6-12 cr  
Total Required Credits ..... 123 cr

## MECHANICAL ENGINEERING TECHNOLOGY\*

(0820)

**Technology Department**  
**Bachelor of Technology (HEGIS 0925)**  
**Accrediting Board for Engineering and Technology**  
(ABET) Accredited\*\*  
*Charles A. Beasley, Chair*  
*Peter S. Pawlik, Coordinator*  
Upton Hall 315 (716) 878-6017

Mechanical engineering technologists are employed in the design, testing, manufacturing and application of machinery. This includes a broad spectrum of applications ranging from consumer goods to industrial equipment.

**Admission Requirements:** Although this program is primarily for students with an A.A.S. in the technologies, freshmen and sophomores are also admitted.

\*Also available through evening study

General Education Requirements ..... 24 cr

Arts and humanities (6 cr)
Written and oral communications (9 cr)
Social sciences (9 cr)

Total Required Credits in Mathematics and Physical Science ..... 24 cr

Mathematics (9 cr)
Physics (6 cr)
Chemistry (6 cr)
Computer Sciences (3 cr)

Total Required Credits in Technical Sciences ..... 18 cr

ENT 300	Analytical Methods for Technologists
ENT 301	Mechanics I
ENT 302	Mechanics II
ENT 331	Electrical Circuits and Devices I
ENT 332	Electrical Circuits and Devices II
ENT 313	Computer Methods in Technology

Total Required Credits in Technical Specialty ..... 33 cr

TEC 101	Technical Drawing
TEC 201	Materials Processing
TEC 311	Materials Science and Testing
ENT 303	Kinematics
ENT 311	Thermodynamics
ENT 312	Fluid Mechanics
ENT 401	Stress Analysis

ENT 402	Shock and Vibration Analysis
ENT 411	Heat Transfer
ENT 421	Machine Design I
ENT 422	Machine Design II

Technical Electives ..... 9 cr  
All College Electives ..... 16 cr  
Total Required Credits ..... 124 cr

\*\*Accreditation Board for Engineering Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202. (410) 347-7700.

## MUSIC

(0125)

**Performing Arts Department**  
**Bachelor of Arts (HEGIS 1005)**  
*Donna E. McCarthy, Chair*  
Rockwell Hall 203 (716) 878-6401

The music major is a liberal arts program which provides students with the broad knowledge and skills to enjoy a lifetime of music, integrate music into a career, and, in some cases, perform as a vocalist or instrumentalist. The discipline of music is studied through classical and creative methods in a series of courses called Music Theory which provides the foundations for contemporary and commercial music.

**Admission Requirements:** Students are required to:

1. Pass the admission exam for MUS 230.
2. Audition for and be accepted at the MUS 171 level for applied music lessons.

3. Be able to perform in an assigned music ensemble.

**Continuation in the Major:**

1. Semester and cumulative GPA of at least 2.5 in all required courses.
2. Successful completion of rehearsal, performance, and jury obligations, and either MUS 273 or MUS 274 by the end of the sixth semester.

Note: A 21-credit music minor emphasizing concentrations in performance, theory, and composition, or academic enhancement is available. Contact the Performing Arts Department for information.

General Education Requirements ..... 42 cr  
Total Required Credits in Music ..... 42 cr

### A. Required Courses (38 cr)

MUS 218	Sight-Singing and Ear-Training I
MUS 230	Music Theory I
MUS 231	Music Theory II
MUS 302	Music History, Antiquity Through Baroque
MUS 303	Music History, Classical and Romantic
MUS 304	Music History, Twentieth Century
MUS 318	Sight-Singing and Ear-Training II
MUS 330	Music Theory III
MUS 331	Music Theory IV
MUS 340	Ethnomusicology I

**Ensemble Performance (6 cr)** - Students are required to participate in the primary ensemble appropriate to their chosen instrument for a minimum of six semesters.

**Applied Music** - MUS 171, MUS 172, MUS 173, MUS 174, MUS 271, MUS 272, MUS 273, MUS 274. Individual lessons in instrumental or vocal performance for a minimum of four semesters. Applied music students are required to perform before a faculty-graded jury each semester.

### B. Electives (4 cr)

(selected by advisement)

Foreign Language Requirement ..... 0-12 cr  
All College Electives ..... 27-39 cr  
Total Required Credits ..... 123 cr



## NUTRITION

See Dietetics: Coordinated Program  
and  
Dietetics: Didactic Program

## PAINTING

(0155)

**Fine Arts Department**  
**Bachelor of Fine Arts (HEGIS 1002)**  
*Sylvia D. Bakos, Chair*  
Upton Hall 502 (716) 878-6014

All freshmen and transfer students enter the B.F.A. program in the uncommitted foundations status (0150). Those students admitted as freshmen or as transfers with less than four semesters in college must be examined for the major prior to their last four semesters in the program. Students admitted as upper-level transfers must be examined for the major at the end of the first semester in the program.

The application for a major is the most critical evaluation in the program. Eligibility will be determined by a two-member faculty committee on the basis of an interview with the student and a review of his or her portfolio. Each B.E.A. student will be required to mount an individual exhibition of his or her work as part of the program requirements. It will be planned and installed with the advice of the student's faculty adviser, but no grade will be assigned.

The Fine Arts Department reserves the right to retain student art work for official purposes such as exhibits, catalogs, or teaching aids.

**Admission Requirements:** Admission to the B.F.A. program is based on an interview and portfolio examination by the Fine Arts Department. The portfolio is to be presented in person or mailed along with a statement of intent as stipulated by the department and should contain examples of work which the candidate feels best display his or her abilities.

Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class.

**General Education Requirements** ..... 36 cr  
**Total Required Credits in Fine Arts** ..... 72 cr

### A. Required Courses (39 cr)

FAR 101	Drawing I
FAR 102	Drawing II
FAR 103	Modeling
FAR 210	Introductory Painting
FAR 220	Introductory Photography
FAR 230	Introductory Printmaking
FAR 240	Introductory Sculpture
FAR 250	Art History I
FAR 251	Art History II
FAR 363	Twentieth-Century Art
Two Art History Electives	
FAR 470	Senior Seminar in Fine Arts

### B. Painting (21 cr)

Intermediate I
Intermediate II
Three Advanced (9 cr)
Senior Studio (6 cr)

### C. Art Electives (12 cr)

**All College Electives** ..... 15 cr  
**Total Required Credits** ..... 123 cr

## PERFORMING ARTS

See Individual Majors

- The Arts
- Music
- Theater

## PHILOSOPHY

(0720)

**Philosophy and Religious Studies Department**  
**Bachelor of Arts (HEGIS 1509)**  
*George T. Hole, Chair*  
Bishop Hall 225 (716) 878-5136

The Bachelor of Arts in Philosophy is basic to a well-rounded liberal arts education, especially in its emphasis on careful and critical thinking. It challenges students to examine their societal and personal beliefs and values so that their life's philosophy is more creatively and responsibly chosen. It is a solid preparation for law school and other specializations requiring a liberal arts background as well as for graduate school in philosophy. The department also offers a minor in religious studies which deepens students' understanding of various religious traditions and their own religious choices.

A departmental honors program is also available. Students should contact the department for additional information.

**General Education Requirements** ..... 42 cr  
**Total Required Credits in Philosophy** ..... 27 cr

### A. Required Courses (9 cr)

PHI 103	Introduction to Logic
	<b>OR</b>
PHI 307	Beginning Symbolic Logic
PHI 317	History of Philosophy I: The Greeks
PHI 318	History of Philosophy II: Seventeenth and Eighteenth Century

### B. Electives in the Major Field (18 cr)

PHI 101	Introduction to Philosophy
PHI 102	Introduction to Moral and Social Philosophy
PHI 104	Introduction to the Study of Religion
PHI 105	Introduction to Christian Thought
PHI 121	Introduction to Jewish Thought
PHI 204	Philosophy of Religion
PHI 205	Introduction to the Old Testament
PHI 207	Philosophy in Literature
PHI 210	Existentialism
PHI 212	History of American Philosophy
PHI 300	Problems of Philosophy
PHI 301	Wealth and Justice
PHI 302	Philosophy of Art and Beauty
PHI 303	Women and Religion
PHI 304	Philosophy of Law
PHI 305	Analytic Philosophy I: Philosophy of Language
PHI 306	Writings of John
PHI 308	Philosophy of Love and Sex
PHI 310	History of Ethics
PHI 312	Analytic Philosophy II: Philosophy of Mind
PHI 314	Contemporary Ethical Theories
PHI 319	Medieval Philosophy
PHI 321	World Religions
PHI 323	Moral Issues
PHI 324	Zen Buddhism
PHI 326	New Testament
PHI 327	Aesthetics and the Arts
PHI 328	Business and Ethics
PHI 329	Contemporary Christian Thought
PHI 331	Religion and Media
PHI 332	Mysticism

PHI 339	Friendship
PHI 350	Holocaust
PHI 401	Problem in Philosophy Seminar
PHI 402	Seminar in the History of Philosophy
PHI 488	Internship
PHI 495	Project
PHI 499	Independent Study

**Foreign Language Requirement** ..... 0-12 cr  
**All College Electives** ..... 42-54 cr  
**Total Required Credits** ..... 123 cr

## PHOTOGRAPHY

(0160)

**Fine Arts Department**  
**Bachelor of Fine Arts (HEGIS 1011)**  
*Sylvia D. Bakos, Chair*  
Upton Hall 502 (716) 878-6014

All freshmen and transfer students enter the B.F.A. program in the uncommitted foundations status (0150). Those admitted as freshmen or as transfers with less than four semesters in college must be examined for the major prior to their last four semesters in the program. Students admitted as upper-level transfers must be examined for the major at the end of the first semester in the program.

The application for a major is the most critical evaluation in the program. Eligibility will be determined by a two-member faculty committee on the basis of an interview with the student and a review of his or her portfolio. Each B.E.A. student will be required to mount an individual exhibition of his or her work. It will be planned and installed with the advice of the student's faculty adviser, but no grade will be assigned.

The Fine Arts Department reserves the right to retain student art work for official purposes such as exhibits, catalogs, or teaching aids.

**Admission Requirements:** Admission to the B.F.A. program is based on an interview and portfolio examination by the Fine Arts Department. The portfolio is to be presented in person or mailed along with a statement of intent as stipulated by the department and should contain examples of work which the candidate feels best display his or her abilities.

Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional charge for materials used in class.

**General Education Requirements** ..... 36 cr  
**Total Required Credits in Fine Arts** ..... 72 cr

### A. Required Courses (39 cr)

FAR 101	Drawing I
FAR 102	Drawing II
FAR 103	Modeling
FAR 210	Introductory Painting
FAR 220	Introductory Photography
FAR 230	Introductory Printmaking
FAR 240	Introductory Sculpture
FAR 250	Art History I
FAR 251	Art History II
FAR 363	Twentieth-Century Art
Two Art History Electives	
FAR 470	Senior Seminar in Fine Arts

### B. Photography (21 cr)

Intermediate I
Intermediate II
Three Advanced (9 cr)
Senior Studio (6 cr)

### C. Art Electives (12 cr)

**All College Electives** ..... 15 cr  
**Total Required Credits** ..... 123 cr

## PHYSICS

(0728)

**Physics Department**  
**Bachelor of Arts (HEGIS 1902)**  
*Dewayne A. Beery, Chair*  
Science Building 271 (716) 878-6731

The B.A. Physics Program provides a good concentration in physics courses and a broad distribution in the liberal arts. Designed for technical or technically related graduate school studies or employment.

**General Education Requirements** ..... 42 cr  
**Total Required Credits in Physics** ..... 31 cr

### A. Required Courses (19 cr)

PHY 111-PHY 112	University Physics I-II (or equivalent) (4-4 cr)
PHY 213	University Physics III
PHY 305	Modern Atomic Physics (4 cr)
PHY 320	Introduction to Theoretical Physics (4 cr)

### B. Electives in Physics (12 cr)

PHY 200	Creators of the Atomic Age
PHY 308	Optics
PHY 310	Computational Physics Laboratory (2 cr)
PHY 315	Thermodynamics
PHY 325	Electronics
PHY 403	X-Rays
PHY 410	Advanced Laboratory (2 cr)
PHY 411	Introduction to Solid State Physics
PHY 412	Physics Seminar (1 cr)
PHY 425	Classical Mechanics (4 cr)
PHY 435	Introduction to Quantum Mechanics
PHY 440	Electricity and Magnetism I
PHY 441	Electricity and Magnetism II
PHY 445	Nuclear Physics
PHY 448	Solid State Physics
PHY 495	Project
PHY 499	Independent Study (1-3 cr)

**Total Required Credits from Outside the Major** ..... 11 cr

MAT 161	Calculus I
MAT 162	Calculus II
MAT 163	Using Technology to Explore Calculus I (1 cr)
MAT 164	Using Technology to Explore Calculus II (1 cr)
MAT 263	Calculus III

**Foreign Language Requirement** ..... 0-12 cr

**All College Electives** ..... 27-39 cr

**Total Required Credits** ..... 123 cr

## PHYSICS

(0778)

**Physics Department**  
**Bachelor of Science (HEGIS 1902)**  
*Dewayne A. Beery, Chair*  
Science Building 271 (716) 878-6731

The B.S. Physics Program gives a broad background in the fundamental concepts and applications of physics. This background is appropriate for graduate school, or scientific employment in physics or physics-related fields.

A departmental honors program is also available. Students should contact the department for additional information.

Transfer students must take a minimum of eight credits of upper-division courses, including PHY 410, in the Buffalo State Physics Department.



PHYSICS (CONTINUED)

“Three-Two” Physics-Engineering Option

This program offers an ideal combination of basic and applied science. Students in the Cooperative (three-two) Physics-Engineering Program attend the college for three years pursuing a liberal arts curriculum in physics. After three years, students transfer to the engineering school and complete the requirements for an engineering degree in two more years.

Students electing this program will complete most requirements of the B.S. degree (0778) program, depending on the engineering school and discipline. The cooperating schools are:

- SUNY at Binghamton: electrical and computer engineering, mechanical engineering

- SUNY at Buffalo: aerospace engineering, civil engineering, electrical and computer engineering, industrial engineering, mechanical engineering

- Clarkson University: chemical engineering, civil and environmental engineering, electrical and computer engineering, mechanical engineering

General Education Requirements ..... 42 cr

Total Required Credits in Physics ..... 42 cr

A. Required Courses (34 cr)

PHY 111-	University Physics I-III (11 cr) (4-4-3 cr)
PHY 112-	
PHY 213	
PHY 305	Modern Atomic Physics (4 cr)
PHY 315	Heat and Thermodynamics
PHY 320	Introduction to Theoretical Physics (4 cr)
PHY 325	Electronics
PHY 410	Advanced Physics Laboratory (2 cr)
PHY 425	Classical Mechanics (4 cr)
PHY 435	Introduction to Quantum Mechanics

B. Required Electives by Advisement (8 cr)

PHY 308	Optics
PHY 310	Computational Physics Laboratory (2 cr)
PHY 403	X-Rays
PHY 412	Seminar
PHY 440	Electricity and Magnetism I
PHY 441	Electricity and Magnetism II
PHY 445	Nuclear Physics
PHY 448	Solid State Physics
PHY 450	Supervised Lab Teaching (1-2 cr)
PHY 495	Project (1-3 cr)
PHY 499	Independent Study (3-6 cr)

Total Required Credits from Outside the Major ..... 14 cr

MAT 161	Calculus I
MAT 162	Calculus II
MAT 163	Using Technology to Explore Calculus I (1 cr)
MAT 164	Using Technology to Explore Calculus II (1 cr)
MAT 263	Calculus III
MAT 315	Differential Equations

All College Electives ..... 25 cr

Total Required Credits ..... 123 cr

PHYSICS EDUCATION (7-12)

(0634)

Physics Department

Bachelor of Science (HEGIS 1902.01)

National Council for Accreditation of Teacher Education

(NCATE) Accredited

Dewayne A. Beery, Chair

Science Building 271 (716) 878-6731

The Secondary Education Physics Program leads to a New York Certificate of Qualification for teaching both physics and general science in grades 7-12.

Note: New York State Teacher Certification requirements are changing. Please call the department for specific requirements.

General Education Requirements ..... 42 cr

Total Required Credits in Physics ..... 32 cr

PHY 111-	University Physics I, II, III (11 cr)
PHY 112-	
PHY 213	
PHY 305	Modern Atomic Physics (4 cr)
PHY 315	Thermodynamics
PHY 320	Theoretical Physics (4 cr)
PHY 325	Electronics
PHY 410	Advanced Laboratory (2 cr)
Physics Electives	Five credits by advisement

Total Required Credits in Professional Education<sup>1</sup> ..... 18 cr

SED 200	Field Experience: Secondary Education
EDF 303	Educational Psychology
EDF 403	Historical and Philosophical Forces
	Influencing Secondary Education
EDU 416	Teaching Reading in Secondary Schools
SED 307	Techniques for Teaching Laboratory
	Activities in a Secondary Science Classroom
SED 308	Methods and Materials in Teaching
	Secondary School Science

Total Required Credits for Student Teaching Experience ..... 12 cr

SED 407/SED 408	Practice Teaching Science in the Secondary School
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Total Required Credits from Outside the Major<sup>1</sup> ..... 38-42 cr

A. One Year (or Equivalent) of Foreign Language (6 cr)

B. Mathematics (14 cr)

MAT 161	Calculus I
MAT 162	Calculus II
MAT 163	Using Technology to Explore Calculus I (1 cr)
MAT 164	Using Technology to Explore Calculus II (1 cr)
MAT 263	Calculus III
MAT 315	Differential Equations

C. General Science Certification (18-22 cr)

- 1 year chemistry (6-8 cr)
- 1 year biology (6-8 cr)
- 1 year earth science (6 cr)

<sup>1</sup> Some hours may be included in 42-credit General Education requirement.

All College Electives ..... 17 cr

Total Required Credits ..... 123 cr

POLITICAL SCIENCE

(0722)

Political Science Department

Bachelor of Arts (HEGIS 2207)

Anthony T. Neal, Chair

Classroom Building B218 (716) 878-6116

Political science is the study of government and politics. The major is divided into four areas: American politics, international politics, comparative politics, and political theory. A variety of courses are offered in each of these areas. Minors are offered in both public administration and political science.

Students gain an understanding of government and politics through a combination of theoretical analysis and practical experience, interning in national, state, or local government or in the Washington Semester Program. Students are prepared for an array of career options in the public and private sectors. The department offers special advisement for graduate study, pre-law, and public administration.

General Education Requirements ..... 42 cr

Total Required Credits in Political Science ..... 36 cr  
(18 of the 36 credits must be in 300- or 400-level courses)

A. Required Courses (12 cr)

PSC 101	Introduction to Government and Politics
PSC 102	Introduction to American Government
PSC 300	Political Analysis
	Statistics (see chair)

B. Political Science Distribution Requirements

American Government and Politics (3 cr)

PSC 210	American Presidency
PSC 215	Urban Government
PSC 218	African-American Political Culture
PSC 220	Development of American Constitutional Law
PSC 225	Women in American Politics
PSC 310	American Political Parties
PSC 311	Interest Groups
PSC 312	Legislative Process
PSC 315	State and Local Government and Politics
PSC 316	Urban Ethnic Politics
PSC 319	Lesbian and Gay Citizenship Politics in the U.S.
PSC 320	U.S. Civil Liberties
PSC 325	Politics of Welfare
PSC 326	Politics and Media
PSC 327	Practical Politics
PSC 360	Public Administration
PSC 364	American Public Policy
PSC 410/SOC 440	Political Behavior and Opinion
PSC 420	Contemporary Constitutional Issues
PSC 460	Public Policy and HIV-AIDS

International Relations (3 cr)

PSC 230	International Relations
PSC 309	Politics of International Business
PSC 330	American Foreign Policy
PSC 333	African International Relations
PSC 335	International Relations of the Middle East

Comparative Government (3 cr)

PSC 240	European Political Systems
PSC 340	Politics of Developing Countries
PSC 345/HIS 313	Politics and History of the Middle East
PSC 368	Comparative Public Administration
PSC 370	Canadian Public Administration

Political Theory and Philosophy (3 cr)

PSC 350	Introduction to Legal Thought
PSC 351	History of Political Theory I
PSC 352	History of Political Theory II
PSC 355	American Political Thought
PSC 375	Race/Sex/Politics of Myth and Story
PSC 450	Contemporary Political Thought

C. General Electives in Political Science (12 cr)

Note: Courses in Section B may also count as electives if not used to fulfill distribution requirements.

PSC 103	Great Political Issues
PSC 306	Politics of Energy
PSC 389	Topics in Political Science
PSC 470	Senior Seminar
PSC 495	Project
PSC 497	Washington Semester
PSC 499	Independent Study

Foreign Language Requirement ..... 0-12 cr

All College Electives ..... 36-48 cr

Total Required Credits ..... 123 cr

PRINTMAKING

(0165)

Fine Arts Department

Bachelor of Fine Arts (HEGIS 1009)

Sylvia D. Bakos, Chair

Upton Hall 502 (716) 878-6014

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Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class.

General Education Requirements ..... 36 cr

Total Required Credits in Fine Arts ..... 72 cr

A. Required Courses (39 cr)

FAR 101	Drawing I
FAR 102	Drawing II
FAR 103	Modeling
FAR 210	Introductory Painting
FAR 220	Introductory Photography
FAR 230	Introductory Printmaking
FAR 240	Introductory Sculpture
FAR 250	Art History I
FAR 251	Art History II
FAR 363	Twentieth-Century Art
	Two art history electives
FAR 470	Senior Seminar in Fine Arts

B. Printmaking (21 cr)

	Intermediate I
	Intermediate II
	Three Advanced (9 cr)
	Senior Studio (6 cr)

C. Art Electives (12 cr)

All College Electives ..... 15 cr

Total Required Credits ..... 123 cr



# PSYCHOLOGY

(0723)

Psychology Department  
Bachelor of Arts (HEGIS 2001)  
Jerry F Cataldo, Chair

Classroom Building C312 (716) 878-6215

Students in the B.A. degree program receive a broad and comprehensive background in the science of psychology, which will qualify them to seek entry to graduate or professional schools or to apply for jobs that require a liberal arts training. The department's approach is both theoretical and empirical at all levels. The broad content areas represented include learning, perception, life-span development and aging, animal behavior, industrial-organizational psychology, social processes, and normal and abnormal behavior.

A departmental honors program is also available. Students should contact the department for more information.

General Education Requirements ..... 42 cr  
Total Required Credits in Psychology ..... 36 cr

## A. Required Courses (15 cr)

PSY 101	Introduction to Psychology
PSY 306	Statistics in Psychological Research
PSY 445	History and Systems of Psychology
PSY 450	Experimental Psychology I
PSY 472	Seminar on Psychology

## B. Electives Selected by Advisement - 300 Level (12 cr)

1. Choose one course from each of the following three concentrations (9 cr):

### Bio/Cognitive Psychology Concentration

PSY 304	Learning: Theory and Research
PSY 308	Sensation and Perception
PSY 321	Comparative Animal Behavior
PSY 340	Cognitive Psychology

### Social/Developmental Psychology Concentration

PSY 325	Social Behavior
PSY 327	Adult Development and Aging I
PSY 355	Life-Span Developmental Psychology
PSY 370	Environmental Psychology I

### Clinical/Applied Psychology Concentration

PSY 310	Behavior Modification I
PSY 311	Personality: Theory and Research
PSY 365	Psychology in the Workplace
PSY 367	Organizational Behavior
PSY 376	Health Psychology

2. Any additional three credits of psychology at the 300 level (3 cr)

## C. Electives Selected by Advisement - 400 Level (9 cr)

1. Choose one course from two of the following three concentrations (6 cr):

### Bio/Cognitive Psychology Concentration

PSY 421	Physiological Psychology
PSY 430	Psycholinguistics: Language Structure and Processes
PSY 432	Human Motivation and Emotion
PSY 441	Introduction to Neuropsychology

### Social/Developmental Psychology Concentration

PSY 415	Competent Infant
PSY 416	Abnormal Child Psychology
PSY 417	The Atypical Infant
PSY 427	Adult Development and Aging II
PSY 470	Environmental Psychology II

### Clinical/Applied Psychology Concentration

PSY 411	Abnormal Psychology
PSY 412	Community Psychology

PSY 466	Personnel Psychology
PSY 480	Psychotherapy: Theory, Research, and Procedures
PSY 481	Psychological Tests and Measurements

2. Any additional three credits of psychology at the 400 level which can include PSY 488, PSY 495, or PSY 499 (3 cr)

Foreign Language Requirement ..... 0-12 cr

All College Electives ..... 33-45 cr

Total Required Credits ..... 123 cr

# PSYCHOLOGY

(0724)

Psychology Department  
Bachelor of Science (HEGIS 2001)

Jerry F Cataldo, Chair

Classroom Building C312 (716) 878-6215

A specialized B.S. degree is offered in the following concentrations: biological psychology, clinical psychology, environmental psychology, industrial/organizational psychology, psychology of aging, and psychology of infancy. The B.S. program is designed for a very limited number of students who seek an intensive preparation in one of the above areas. Emphasis is placed upon intensive practicum work and independent study. Students have the opportunity to work closely with a faculty mentor.

A departmental honors program is also available. Students should contact the department for additional information.

## Admission Requirements:

1. The student must be enrolled in the B.A. degree program before he or she can apply to the B.S. program.
2. The student must be sponsored by an individual faculty member in the specific B.S. area. The student must be able to complete at least one academic year of supervised work in the B.S. program before graduation.
3. All students sponsored for the B.S. program must be accepted by the Psychology Department.
4. A student applying for the B.S. must have received at least a grade of "B" in the first course of the required sequence of B.S. courses.
5. A student applying for the B.S. must be in good academic standing.

General Education Requirements ..... 42 cr

Total Required Credits for Specialized B.S. Degree in Psychology .. 39-42 cr

## Required Courses (18 cr)

PSY 101	Introduction to Psychology
PSY 306	Statistics in Psychological Research
PSY 445	History and Systems of Psychology
PSY 450	Experimental Psychology I
PSY 472	Seminar on Psychology
PSY 499	Independent Study

PSY 495	OR Project
PSY 488	OR Internship

In addition, students are required to complete one of the following concentrations (21-24 cr). Note that at least two courses for each concentration must be at the 400 level (excluding the courses listed above).

### Biological Psychology Concentration (24 cr)

PSY 304	Learning: Theory and Research
PSY 308	Sensation and Perception
PSY 321	Comparative Animal Behavior
PSY 421	Physiological Psychology
PSY 441	Introduction to Neuropsychology

	OR
PSY 376	Health Psychology
Elective courses selected by advisement (9 cr)	

Elective courses selected by advisement (9 cr)

### Clinical Psychology Concentration (24 cr)

PSY 311	Personality: Theory and Research
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PSY 411	Abnormal Psychology
PSY 480	Psychotherapy: Theory, Research, and Procedures
PSY 481	Psychological Tests and Measurements

Elective courses selected by advisement (12 cr)

### Environmental Psychology Concentration (24 cr)

PSY 370	Environmental Psychology I
PSY 470	Environmental Psychology II

Elective courses selected by advisement (18 cr)

### Industrial/Organizational Psychology Concentration (24 cr)

PSY 365	Psychology in the Workplace
PSY 367	Organizational Behavior
PSY 466	Personnel Psychology

Elective courses selected by advisement (15 cr)

### Psychology of Aging Concentration (21 cr)

PSY 327	Adult Development and Aging I
PSY 355	Life-Span Developmental Psychology
PSY 427	Adult Development and Aging II

Elective courses selected by advisement (12 cr)

### Psychology of Infancy Concentration (21 cr)

PSY 355	Life-Span Developmental Psychology
PSY 415	Competent Infant
PSY 417	The Atypical Infant

Elective courses selected by advisement (12 cr)

All College Electives ..... 39-42 cr

Biological Psychology (39 cr)
Clinical Psychology (39 cr)
Environmental Psychology (39 cr)
Industrial/Organizational Psychology (39 cr)
Psychology of Aging (42 cr)
Psychology of Infancy (42 cr)

Total Required Credits ..... 123 cr

# PUBLIC COMMUNICATION

(0703)

Communication Department  
Bachelor of Arts (HEGIS 0699)

Janet E. Ramsey, Chair

Bishop Hall 210 (716) 878-6008

The public communication major is designed to prepare students for the changing role of public relations in both the private and public sectors of society, where written and spoken communication skills will be required and the understanding of group dynamics is important. Under this program, students will take courses in written and oral communication, specialized courses in public relations and advertising, and optional courses which complement individual career goals.

A departmental honors program is also available. Students should contact the department for additional information.

General Education Requirements ..... 42 cr

Total Required Credits in Public Communication ..... 39 cr

## A. Required Courses (27 cr)

COM 205	Introduction to Oral Communication
COM 210	Introduction to Writing for the Media
COM 215	Introduction to Visual Communication

Students must receive a 2.6 GPA in the above three foundation courses to declare a major in public communication.

COM 301	Public Relations and Advertising
COM 307	Communication and Group Process
COM 308	Public Relations Writing
COM 322	Layout and Graphics
COM 418	Campaigns in Public Relations
COM 450	Communication and Society <sup>1</sup>

<sup>1</sup>COM 450 is required of all students choosing a major in the Communication Department. It must be taken after completion of 90 credits.

## B. Electives Selected by Advisement (12 cr)

Twelve credits selected from all 300- and 400-level courses in the Communication Department

Foreign Language Requirement ..... 0-12 cr

All College Electives ..... 30-42 cr

Total Required Credits ..... 123 cr

# SCULPTURE

(0170)

Fine Arts Department  
Bachelor of Fine Arts (HEGIS 1002)

Sylvia D. Bakos, Chair

Upton Hall 502 (716) 878-6014

All freshmen and transfer students enter the B.E.A. program in the uncommitted foundations status (0150). Those admitted as freshmen or as transfers with less than four semesters in college must be examined for the major prior to their last four semesters in the program. Students admitted as upper-level transfers must be examined for the major at the end of the first semester in the program.

The application for a major is the most critical evaluation in the program. Eligibility will be determined by a two-member faculty committee on the basis of an interview with the student and a review of his or her portfolio. Each B.E.A. student will be required to mount an individual exhibition of his or her work. It will be planned and installed with the advice of the student's faculty adviser, but no grade will be assigned.

The Fine Arts Department reserves the right to retain student art work for official purposes such as exhibits, catalogs, or teaching aids.

**Admission Requirements:** Admission to the B.E.A. program is based on an interview and portfolio examination by the Fine Arts Department. The portfolio is to be presented in person or mailed along with a statement of intent as stipulated by the department and should contain examples of work which the candidate feels best display his or her abilities.

Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class.

General Education Requirements ..... 36 cr

Total Required Credits in Fine Arts ..... 72 cr

## A. Required Courses (39 cr)

FAR 101	Drawing I
FAR 102	Drawing II
FAR 103	Modeling
FAR 210	Introductory Painting
FAR 220	Introductory Photography
FAR 230	Introductory Printmaking
FAR 240	Introductory Sculpture
FAR 250	Art History I
FAR 251	Art History II
FAR 363	Twentieth-Century Art
Two Art History Electives	
FAR 470	Senior Seminar in Fine Arts

## B. Sculpture (21 cr)

Intermediate I
Intermediate II
Three Advanced (9 cr)
Senior Studio (6 cr)

## C. Art Electives (12 cr)

All College Electives ..... 15 cr

Total Required Credits ..... 123 cr



## SOCIAL STUDIES EDUCATION (7-12, 5-6 EXTENSION)

(0640)

**History and Social Studies Education Department**  
**Bachelor of Science (HEGIS 2201.01)**  
**National Council for Accreditation of Teacher Education**  
**(NCATE) Accredited**  
*Edward O. Smith Jr., Chair*  
Classroom Building C205 (716) 878-5412

The Social Studies Education Program prepares students for teaching positions at the middle and senior high school levels in those courses that make up the social studies curriculum. The program emphasizes both theoretical foundations and practical experience.

**Admission Requirements:** Students should contact the coordinator of social studies education, William Mitchell, Classroom Building C-210, 878-4537, for admission requirements.

A minimum 2.5 cumulative GPA and a minimum 2.5 GPA in history and social science courses is required.

**Prerequisites for Student Teaching:** See prerequisites for SSE 409 and SSE 410.

A departmental honors program is also available. Students should contact the department for additional information.

Students completing this program will be eligible to apply to the New York State Department of Education for certification in social studies extended to grades 5 and 6.

**Note: New York State Teacher Certification requirements are changing. Please call the department for specific requirements.**

**ECC Joint Program (HEGIS 2201):** In 1990 Buffalo State College and Erie Community College-City Campus entered into a Joint Program in Teacher Preparation for Secondary Education/Social Studies to facilitate the movement of minority students into the profession. Students must apply to the program during their first term at ECC-City Campus, be interviewed and formally accepted into the Joint Teacher Preparation Program at ECC, follow the prescribed curriculum of the program, maintain continuous enrollment, complete an A.A. degree in liberal arts and sciences, humanities, and social sciences, and maintain the appropriate GPA as outlined in the collaborative agreement. A bachelor of science in social studies 5-12 is granted upon completion. Students considering this unique transfer arrangement should contact the Admissions Office at ECC-City Campus within their first term at the community college for specific curriculum and entrance requirements.

**General Education Requirements** ..... 42 cr

**Total Required Credits in Social Studies** ..... 42 cr

Basic U.S. History (6 cr)  
Basic European History (6 cr)  
World History (non-western) (6 cr)  
Economics (3 cr)  
ECO 101 The Economic System  
ECO 201 Principles of Macroeconomics  
ECO 202 Principles of Microeconomics  
Political Science (3 cr)  
PSC 102 Introduction to American Government  
PSC 215 Urban Government  
PSC 315 State and Local Government Politics  
Geography (3 cr)  
GEG 101 World Natural Environments  
GEG 206 Geography of New York State  
Social Studies Elective (3 cr)  
Upper Division Social Science Concentration (9 cr)  
Seminar in Concentration (3 cr)

**Total Required Credits in Professional Education** ..... 21 cr

EXE 100 Nature and Needs of Individuals with Special Needs  
SST 200 Field Experience: Secondary Education  
EDF 303 Educational Psychology  
EDF 403 Historical and Philosophical Forces Influencing Secondary Education  
EDU 416 Teaching Reading in Secondary Schools  
SSE 309 Methods and Materials in Teaching Secondary Social Studies  
SST 303 Techniques for Teaching Social Studies in the Secondary Classroom

**Total Required Credits in Student Teaching** ..... 12 cr

SSE 409 Student Teaching of Social Studies in the Middle Schools (6 cr)  
SSE 410 Student Teaching of Social Studies in the Senior High School (6 cr)

To student teach, the student must have a 2.75 or higher cumulative GPA, a minimum 2.75 GPA in the major, and obtain a grade of "C" or higher in SSE 309.

**Total Required Credits in Other Fields**

One year of college-level study of a foreign language or equivalent

**All College Electives** ..... 6 cr

**Total Required Credits** ..... 123 cr

To graduate, a student must have a cumulative GPA of 2.75 or higher and a minimum 2.75 GPA in the major.

## SOCIAL WORK\*

(0435)

**Social Work Department**  
**Bachelor of Science (HEGIS 2104)**  
**Council on Social Work Education Accredited**

*J. Patrick Dexter, Chair*  
Classroom Building C115 (716) 878-5705

The Social Work Program prepares students for social work practice at the first professional level. Consistent with accreditation standards, the social work courses cover the following areas: human behavior in the social environment, social welfare policy and services, intervention methods, research, values and ethics, diversity, social and economic justice, people at risk, and field instruction.

Social work is an upper-level major that builds on a liberal arts base. Academic evaluation includes GPA class performance, and conduct that is ethical and professional. Interested students should contact the department for specific information on these academic standards.

**Admission Requirements:**

1. Complete 45 credits by the end of the semester in which the application is made;
2. A GPA of 2.5 or better;
3. Complete the English and math competency requirements of the college;
4. Complete the liberal arts foundation (one course in each of the following areas: sociology, psychology, political science, anthropology, economics, history, philosophy, literature, and the arts). A list of courses which fulfill these requirements is available in the department office;
5. Complete the application.

\*Also available through evening study

**General Education Requirements** ..... 42 cr

BIO 100 or equivalent in Human Biology

**Total Required Credits in Social Work** ..... 42 cr

SWK 220 Introduction to Social Work  
SWK 307 Human Behavior and Social Environment I  
SWK 308 Human Behavior and Social Environment II

SWK 317 Research in Social Work  
SWK 319 Dynamics of Poverty  
SWK 320 Social Services Organizations  
SWK 419 Social Welfare Policy  
SWK 422 Interventive Methods I  
SWK 423 Interventive Methods II  
SWK 424 Interventive Methods III  
SWK 493-494 Field Instruction (12 cr)

**All College Electives** ..... 39 cr

**Total Required Credits** ..... 123 cr

## SOCIOLOGY

(0730)

**Sociology Department**  
**Bachelor of Arts (HEGIS 2208)**

*Virginia E. Grabiner, Chair*  
Classroom Building B307 (716) 878-5411

Sociology is the study of human beings and their societies. The Sociology Program leads to a B.A. degree and is designed to provide students with a well-rounded and fundamental knowledge of the discipline. The program provides a foundation both for employment, particularly in social service related areas, as well as for further graduate study. Additionally, its individual courses form important components of other major programs at Buffalo State. Students may minor in sociology or deviance. For further information, contact the department office.

**Special Requirements:** Majors must enroll in SOC 301 before accumulating 75 credits to maintain status as a major.

**General Education Requirements** ..... 42 cr

**Total Required Credits in Sociology** ..... 40 cr

**A. Required Courses (22 cr)**

SOC 100 Introduction to Sociology  
SOC 300 Methods in Social Research  
SOC 301 Social Statistics (4 cr)  
SOC 330 Social Psychology

**OR**

SOC 350 Power, Class and Inequality  
SOC 400 Foundations of Sociological Thought  
SOC 408 Contemporary Sociology Theory  
SOC 490 Seminar in Sociology

**B. At Least One Course From Each of Three Concentrations (9 cr)**

**Social Institutions Concentration**

SOC 320 Sociology of the Family  
SOC 323 Sociology of Education  
SOC 360 Sociology of Work  
SOC 362 Sociology of Organizations

**Social Structure and Development Concentration**

SOC 310 Sociology of Sex Roles  
SOC 333 Social Movements  
SOC 340 Sociology of the City  
SOC 351 Sociology of Race and Ethnicity

**Deviance Concentration**

SOC 370 Sociology of Deviant Behavior  
SOC 380 Sociology of Crime  
SOC 382 Sociology of Law  
SOC 390 Juvenile Delinquency

**C. Sociology Electives (9 cr)**

At least three additional courses in sociology

**Foreign Language Requirement** ..... 0-12 cr

**All College Electives** ..... 29-41 cr

**Total Required Credits** ..... 123 cr

## SOCIOLOGY

(0732)

**Sociology Department**  
**Bachelor of Science (HEGIS 2208)**

*Virginia E. Grabiner, Chair*  
Classroom Building B307 (716) 878-5411

The B.S. degree program emphasizes applied sociology and prepares students to conduct and administer sociological research for client organizations such as business and financial institutions, labor organizations, criminal justice units, government agencies, health-related organizations, and a host of social service agencies. The program rests upon a foundation of required core courses stressing research skills and sociological theory. The student selects one of two concentrations, either in social structure, which emphasizes applied computer skills, or social development, which requires internship experience in community agencies.

**Special Requirements:** Majors must enroll in SOC 301 before accumulating 75 credits to maintain status as a major.

**General Education Requirements** ..... 42 cr

**Total Required Credits in Sociology** ..... 40 cr

**A. Required Courses (22 cr)**

SOC 100 Introduction to Sociology  
SOC 301 Social Statistics (4 cr)  
SOC 400 Foundations of Sociological Thought

**OR**

SOC 408 Contemporary Sociological Theory

**Social Structure Concentration**

SOC 199 Social Science Computer Applications  
SOC 300 Methods of Social Research  
SOC 350 Power, Class, and Inequality  
SOC 415 Population Analysis (Computer)

**Social Development Concentration**

SOC 300 Methods of Social Research  
**OR**  
SOC 302 Applied Social Research  
SOC 330 Social Psychology  
SOC 488 Internship in Sociology (6 cr)

**B. Concentration Electives (9 cr)**

**Social Structure Concentration**

*Three of the following:*

SOC 340 Sociology of the City  
SOC 351 Sociology of Race and Ethnicity  
SOC 361 Industrial Sociology  
SOC 362 Sociology of Organizations  
SOC 380 Sociology of Crime  
SOC 382 Sociology of Law

**Social Development Concentration**

*Three of the following:*

SOC 310 Sociology of Sex Roles  
SOC 320 Sociology of the Family  
SOC 322 Sociology of Childhood and Youth  
SOC 331 Sociology of Group Dynamics  
SOC 360 Sociology of Work  
SOC 370 Sociology of Deviant Behavior  
SOC 390 Juvenile Delinquency

**C. Sociology Electives (9 cr)**

At least three additional courses in sociology

**All College Electives** ..... 41 cr

**Total Required Credits** ..... 123 cr



## SPANISH EDUCATION (7-12)

(0656)

### Foreign Language Department

Bachelor of Science (HEGIS 1105.01)

National Council for Accreditation of Teacher Education  
(NCATE) Accredited

Lucy M. Schwartz, Chair

Bishop Hall 122 (716) 878-5414

The Spanish-Secondary Education Program enables students to earn provisional certification to teach Spanish in New York State secondary schools. Students develop Spanish language skills and study the structure and sound system of Spanish, the literature and culture of Spanish-speaking peoples, and, in the professional education component, the growth and role of the public school, adolescent development and psychology, and the teaching/learning of foreign languages in school settings. The curriculum includes a series of field experiences. Students must have a GPA of 2.5 (overall and in the major) in order to student teach.

**Note: New York State Teacher Certification requirements are changing. Please call the department for specific requirements.**

General Education Requirements ..... 42 cr

Total Required Credits in Spanish ..... 36 cr

#### A. Required Courses (24 cr)

SPA 301-SPA 302	Spanish Conversation and Composition
SPA 305	Spanish Phonetics
SPA 306	The Civilization of Spain
SPA 309	The Civilization of Latin America
SPA 415	Advanced Grammar and Composition

and either

SPA 307-SPA 308	Survey of Spanish Literature
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OR

SPA 310-SPA 311	Survey of Spanish-American Literature
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#### B. Electives (12 cr)

Spanish courses at the 300- or 400-level selected by advisement

Total Required Credits in Professional Education ..... 21 cr

EXE 100	Nature and Needs of Individuals with Special Needs
FLE/SED 200	Field Experience in Foreign Language Secondary Education
EDF 303	Educational Psychology
EDF 403	Historical and Philosophical Forces Influencing Secondary Education
EDU 416	Teaching Reading in Secondary Schools
FLE/SED 405	Methods and Materials for Teaching Foreign Languages in Secondary Schools.
FLE/SED 406	Techniques for Teaching and Evaluating Foreign Languages in Middle and Secondary Schools

Total Required Credits in Student Teaching ..... 12 cr

FLE/SED 407	Student Teaching of Foreign Languages in the Middle/Junior High School (6 cr)
FLE/SED 408	Student Teaching of Foreign Languages in the Senior High School (6 cr)

All College Electives ..... 12 cr

Total Required Credits ..... 123 cr

## SPANISH LANGUAGE AND LITERATURE

(0714)

### Foreign Language Department

Bachelor of Arts (HEGIS 1105)

Lucy M. Schwartz, Chair

Bishop Hall 122 (716) 878-5414

The program is designed to develop the ability to communicate in Spanish and to introduce students to the masterpieces of the literature of Spanish-speaking countries and the most significant aspects of Hispanic culture. Students are encouraged to study in Spain or Latin America for a semester in an approved program.

General Education Requirements ..... 42 cr

Total Required Credits in Spanish ..... 36 cr

#### A. Required Courses (15 cr)

Majors may select either sequence of courses:

SPA 301-SPA 302	Spanish Conversation and Composition
SPA 306	Civilization of Spain
SPA 307-SPA 308	Survey of Spanish Literature

OR

SPA 301-SPA 302	Spanish Conversation and Composition
SPA 309	Civilization of Latin America
SPA 310-SPA 311	Survey of Spanish-American Literature

#### B. Electives (21 cr)

Courses in Spanish at 300- and 400- levels selected by advisement.

All College Electives ..... 45 cr

Total Required Credits ..... 123 cr

## SPEECH LANGUAGE PATHOLOGY

(0325)

### Speech Language Pathology Department

Bachelor of Science (HEGIS 1220)

Nancy J. Lund, Chair

Ketchum Hall 208 (716) 878-5502

The undergraduate program prepares students in the fundamentals of normal acquisition of speech, language, and hearing as well as an introduction to the field of communication disorders. The undergraduate program provides students with necessary prerequisite courses for application to graduate study. The speech language pathology master's degree program is accredited by the American Speech-Language-Hearing Association.

The master's degree is necessary for the permanent teaching certificate as well as for the license to practice speech language pathology and for the Certificate of Clinical Competence (CCC) awarded by the American Speech-Language-Hearing Association.

General Education Requirements ..... 42 cr

Total Required Credits in Speech Language Pathology ..... 45 cr

EXE 100	Nature and Needs of Individuals with Special Needs
SLA 302	Clinical Phonetics
SLA 303	Language Acquisition
SLA 304	Anatomy and Physiology of Speech and Hearing Mechanisms
SLA 306	Speech Pathology I
SLA 307	Speech Pathology II
SLA 312	Speech Acoustics and Perception
SLA 324	Clinical Methods and Observation in Speech Language Pathology

SLA 411	Language Diagnosis and Remediation
SLA 414	Audiology
SLA 415	Aural Rehabilitation
SLA 424	Organization and Administration of School Speech and Language Programs

Total Required Credits in Professional Education ..... 9 cr

EDF 202	Child Development and Education
EDF 302	Educational Psychology and Elementary Education
EXE 245	Community Service with Individuals with Special Needs

All College Electives ..... 27 cr

Recommended Speech Language Pathology Electives

SLA 429	Clinical Activity (free elective)
PSY 306	Statistics in Psychological Research

OR

MAT 311	Introductory Probability and Statistics
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Total Required Credits ..... 123 cr

## TECHNOLOGY

See Individual Majors

- Electrical Engineering Technology, Electronics
- Electrical Engineering Technology, Power and Machines
- Industrial Technology
- Mechanical Engineering Technology
- Technology Education

## TECHNOLOGY EDUCATION

(0500)

### Technology Department

Bachelor of Science (HEGIS 0839.01)

National Council for Accreditation of Teacher Education  
(NCATE) Accredited

Charles A. Beasley, Chair

Upton Hall 315 (716) 878-6017

Richard A. Butz, Coordinator

Upton Hall 243C (716) 878-4605

The Technology Education Program prepares students to teach technology and the technological systems utilized in problem solving. The four systems emphasized are construction, manufacturing, communication, and transportation. The program is laboratory oriented, teaching the important role of engineering a product or service through selecting and systemizing knowledge for the solution of a problem.

Graduates are recommended for a provisional certificate to teach technology education (formerly industrial arts) in grades K-12.

**Note: New York State Teacher Certification requirements are changing. Please call the department for specific requirements.**

General Education Requirements ..... 36 cr

Applied Science and Technology (6 cr)
Arts (9 cr)
Humanities (9 cr)
Math/Science (3 cr)
Social Science (9 cr)

Accreditation Requirements ..... 12 cr

Core Math	
Core Chemistry	
MAT 124	Precalculus
PHY 107	General Physics I

Technology Core Requirements ..... 33 cr

TEC 101	Technical Drawing
TEC 123	Principles of Manufacturing
TEC 201	Materials Processing
TEC 300	Construction Systems
TEC 302	CAD/CAM
TEC 311	Materials Science and Testing
TEC 312	Materials Management
TEC 314	Electro-Mechanical Systems
TEC 349	Communication Systems
TEC 361	Transportation Systems
TEC 402	Ergonomics

Professional Sequence ..... 24 cr

OEC 301	Principles of Occupational Education
OEC 302	Curriculum and Evaluation in Occupational Education
EDF 303	Educational Psychology
TEC 360W	Technology Education Methods and Evaluation
TED 450W	Professional Semester (6 cr)
TED 451W	Professional Semester (6 cr)

All College Electives ..... 20 cr

Total Required Credits ..... 125 cr

## THEATER

(0115)

### Performing Arts Department

Bachelor of Arts (HEGIS 1506)

Donna E. McCarthy, Chair

Rockwell Hall 203 (716) 878-6401

The Theater Program introduces students to all aspects of theater art. The theater season includes both faculty-and student-directed productions presented on campus. These productions are attended by members of both the college and the community. Through advisement students may focus their studies in the following concentrations: acting, directing, design/technical, playwriting, and general study. High standards in this program afford a foundation for careers in professional as well as educational theater. A 19-credit minor program in theater is also available.

General Education Requirements ..... 42 cr

Total Required Credits in Theater ..... 42 cr

#### A. Required Courses (26 cr)

THA 216	Theater Fundamentals
THA 226	Acting
THA 230	Theater Practicum I
THA 231	Theater Practicum II
THA 234	Technical Theater
THA 316	Script Analysis
THA 317	History of Theater-Ancient to Renaissance
THA 318	History of Theater-Renaissance to Modern
THA 330	Theater Practicum III
THA 331	Theater Practicum IV
THA 350	Directing
THA 416	Seminar in Theater Arts

#### B. Electives by Advisement (16 cr)

Electives in a concentration: acting, directing, design-technical, playwriting, or general study

Foreign Language Requirement ..... 0-12 cr

All College Electives ..... 28-40 cr

Total Required Credits ..... 123 cr



## URBAN-REGIONAL ANALYSIS AND PLANNING\*

(0738)

### Geography and Planning Department

#### Bachelor of Science (HEGIS 2214)

Raymond W. Waxmonsky, Chair

Classroom Building A213 (716) 878-6216

Planning is a discipline concerned with effective change and development in a positive and beneficial manner. It has many sub-areas which range from land use planning to public service planning. The program at Buffalo State is designed to provide students with a sound, fundamental knowledge of one of two principal concentrations: urban or community planning and environmental planning. Students majoring in the program are encouraged to develop their own, secondary area of interest in planning.

\*Also available through evening study

General Education Requirements ..... 42 cr  
Both Concentrations

#### A. Required Courses ..... 24 cr

##### Both Concentrations

GEG 101	World Natural Environments
PLN 315	Introduction to Community Planning
GEG 305	Principles of Economic Geography
PLN 325	Map and Air Photo Interpretation
GEG 430	Seminar in Geography and Planning Applications

##### Choose one of the following:

GEG 199	Computers in Social Science
CIS 101	Computer Fundamentals
CIS 201	Introduction to Microcomputer Applications

##### Choose one of the following:

ECO 305	Statistics for Economics
MAT 311	Introductory Probability and Statistics

##### Choose one of the following:

SOC 300	Methods in Social Research <sup>1</sup>
PSC 300	Political Analysis

<sup>1</sup> Prerequisites for this course are waived by the Sociology Department for Urban-Regional Analysis and Planning Majors.

In addition, planning majors are required to select one of two concentrations to complete an additional 18 credits (Urban Planning) or 16-18 credits (Environmental Planning)

#### B. Additional Requirements

Urban-Regional Planning Concentration ..... 18 cr

##### Specialized Required Courses (12 cr)

GEG 309	Introduction to Urban Geography
GEG 330	Land Resource Analysis and Planning
PLN 412	Community Planning Agencies and Issues

##### Choose one of the following:

PLN 415	Seminar in Planning
PLN 380	Neighborhood Revitalization
PLN 385	Commercial Development Planning

##### Electives (6 cr)

###### Selected with advisement

GEG 310	Geography of Transportation
GEG 425	Computer Mapping and Geographic Information Systems
PSC 215	Urban Government
ECO 412	Urban Economics
ECO 424	Econometrics
ECO 425	Business and Economic Forecasting
PLN 488	Internship (3 cr maximum)

Environmental Planning Concentration ..... 16-18 cr

##### Specialized Required Courses by Advisement from

###### Outside the Major (7 cr)

Students in this concentration must demonstrate college-level competency in general chemistry and general botany.

BIO 115 General Botany (4 cr)

##### Choose one of the following:

CHE 101	General Chemistry I
CHE 102	General Chemistry II

##### Electives (9-11 cr)

###### Selected with advisement

GEG 370	Principles of Water Resource Planning
GEG 375	Principles of Hydrology
GEG 365	Soils and Soil Management
GEG 420	Economic Evaluation of Water Resources
GEG 425	Computer Mapping and Geographic Information Systems
PLN 415	Seminar in Planning
PLN 488	Internship (3 cr maximum)
GES 421	Dynamics of Sedimentation
GES 452	Hydrogeology
BIO 315	Ecology (4 cr)
BIO 418	Limnology (4 cr)

#### All College Electives

Urban-Regional Planning Concentration ..... 39 cr

Environmental Planning Concentration ..... 39-41 cr

Total Required Credits (Both Concentrations) ..... 123 cr

## VOCATIONAL TECHNICAL EDUCATION\*

(0800)

### Educational Foundations Department

#### Bachelor of Science

(HEGIS 0839.03)

#### National Council for Accreditation of Teacher Education

(NCATE) Accredited

Betty J. Cappella, Chair

Bacon Hall 306 (716) 878-4303

N. John Popovich, Coordinator

Bacon Hall 109 (716) 878-4717

The program prepares vocational-technical teachers for teaching positions in city high schools, area vocational schools (BOCES), technical institutes, correctional facilities, and community-college technical programs. It provides theoretical and practical preparation in planning, instructing, and managing the learning environment for students who have or will have extensive work experience in a specific trade.

##### Admission Requirements:

1. Verified full-time trade experience: Four years with high school diploma, or two years with an A.A.S. degree in the occupational area, or one year with a B.S. degree and 36 credits of coursework in the occupational area, or a work-study arrangement (see EPOT below).
2. High school diploma or equivalent: High school students interested in entering the program prior to completing the required work experience may apply for the EPOT program (Early Preparation of Occupational Teachers). Applicants must be able to locate a position in their trade. They will take courses in the evening leading to a B.S. degree and teacher certification while learning their trade in a paid position. The program takes about five years to complete.
3. Admission review.
4. Trade proficiency verified by a practical and theoretical examination.

Note: New York State Teacher Certification requirements are changing. Please call the department for specific requirements.

\*Also available through evening study

General Education Requirements ..... 42 cr

Total Required Credits in Vocational Technical Education ..... 63 cr

#### A. Major Field (30 cr)

VTE 100	Applied Skill (15 cr)
VTE 200	Technical Information (15 cr)

#### B. Professional Requirements (30 cr)

OEC 301	Principles of Occupational Education
OEC 302	Curriculum/Evaluation in Occupational Education
VTE 302	Course Organization
VTE 306	Laboratory Management
VTE 404	Methods of Teaching Vocational Technical Subjects
VTE 413	Student Teaching and Observation
VTE 415	Professional Development Seminar
VTE 421	Occupational Education for Individuals with Special Needs

Electives (six credits in either VTE electives, Educational Foundations, Exceptional Education, or Criminal Justice)

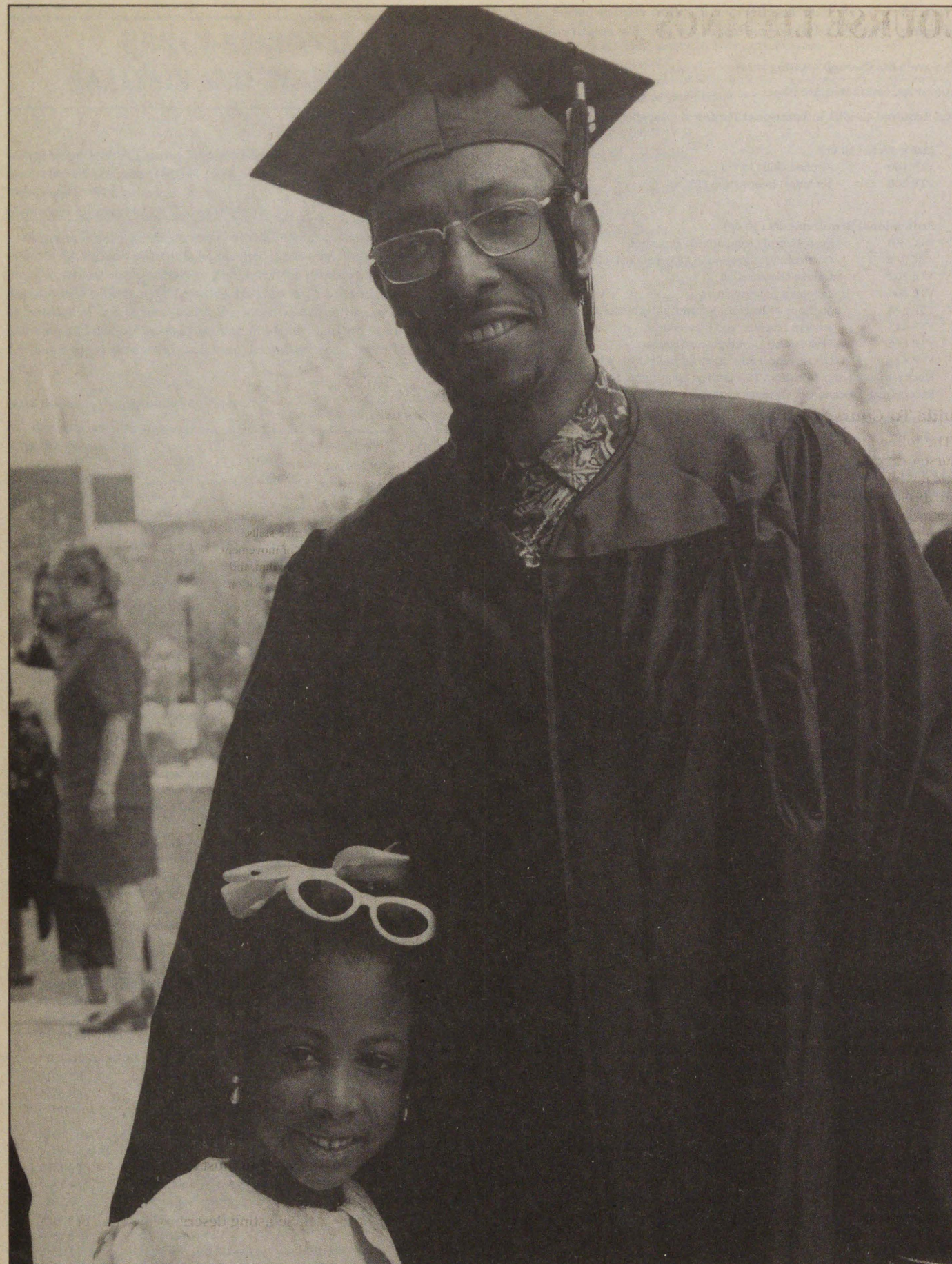
#### C. Required Courses in Behavioral Studies (3 cr)

EDF 303	Educational Psychology
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All College Electives ..... 20 cr

Total Required Credits ..... 125 cr





## COURSE LISTINGS

### Guide To Course Listings

The following section lists and describes each undergraduate course offered for the next two years. Courses are listed alphabetically by prefix. Each description contains important information about the content of the course, when it will be offered, and how it contributes toward satisfying the 42-credit general education requirement.

(A complete explanation of the requirements may be found in the Collegewide Degree Requirement section of the catalog under general requirements for B.A. and B.S. degrees, pages 53-56.)

Each description lists in order: the prefix, course number, title, number of credits given, number of lecture hours the course meets each week, number of studio/lab hours each week, the term and year the course is scheduled to be offered (F for fall and Sp for spring), 42-hour general education designation, and course prerequisites.

Whether or not a specific course will be scheduled for a given term is contingent on student enrollment, budget support, and adequate staffing. The descriptions are current as of December 1998.

### General Education Requirement Designations

If a course will satisfy a general education requirement, it will be designated **C** followed by a letter identifying the area of the requirement it addresses.

A course that satisfies the applied science/technology requirement will be designated **CT**. Courses satisfying the arts requirement will be designated **CA**. Courses satisfying the humanities requirement are designated **CH**, mathematics/science **CM**, and social science **CS**. Courses satisfying the global issues and diversity requirements are designated **G** and **D** respectively.

### Course Numbering

The course number is used to indicate the degree of difficulty of each course. Generally 100- and 200-level courses are lower division (for freshmen and sophomores), while 300- and 400-level courses are upper division and often more advanced. Courses designated 097, 098, and 099 may not be used to fulfill degree requirements.

### Here's a sample course listing:

**DAN 302**  
**MODERN DANCE TECHNIQUE II**  
 3, 1/4; 1999-01 CA  
*Prerequisite: DAN 200 or consent of instructor.* Designed to develop and strengthen technical dance skills. Fundamental principles of movement in relation to dynamics, rhythm, and space; introduction to improvisation and modern dance history.

### Here's what it means:

**DAN 302**  
 This is a dance course, number 302

**MODERN DANCE TECHNIQUE II**  
 Name of course.

**3, 1/4**  
 Number of semester credit hours the course earns,  
 Number of lecture hours the class meets per week /  
 Number of studio or lab hours per week.

**F, Sp**  
 If an F or Sp is indicated, the course is offered only during the fall (F) semester or the spring (Sp) semester. In the above sample, the course carries no designation; this means it is taught each semester of the regular academic year.

**1999-01**  
 This course is offered both fall and spring semesters during 1999 through 2001.

**CA**  
 This course satisfies the arts general education requirement.

**Prerequisites:**  
 Prerequisites or requirements you must fulfill before registering for a course.

The remainder of the course listing describes the subject matter.



# COURSE PREFIXES

AAS	African and African-American Studies
ADE	Adult Education
AED	Art Education
ANT	Anthropology
ATS	Art Therapy Studies
AEL	Assessment of Experiential Learning
BIO	Biology
BUS	Business
BXE	Bilingual Exceptional Education
CHE	Chemistry
COM	Communication
CIS	Computer Information Systems
CRS	Creative Studies
CRJ	Criminal Justice
DAN	Dance
DES	Design
DED	Distributive and Business Education
ECO	Economics
ECS	Early Childhood Studies
EDC	Educational Computing
EDU	Education
EDF	Educational Foundations
ENS	Environmental Science
ENT	Engineering Technology
ENG	English
EXE	Exceptional Education
FAR	Fine Arts
FLA	Foreign Language
FLE	Foreign Language Education
FRE	French
FTT	Fashion and Textile Technology
SCI	General Science
SEC	General Science Education
GEG	Geography
GES	Geosciences
GER	German

# OTHER COURSE CODES

CT	Can satisfy applied science/technology general education requirement
CA	Can satisfy arts general education requirement
CH	Can satisfy humanities general education requirement
CM	Can satisfy mathematics/science general education requirement
CS	Can satisfy social science general education requirement
F	Course is only offered during the fall semester
G	Can satisfy global issues requirement
D	Can satisfy diversity requirement
Sp	Course is only offered during the spring semester

GSS	General Studies
GRK	Greek
HEW	Health and Wellness
HIS	History
HON	Honors
HUM	Humanities
IUP	Indiana University Program
IAE	Industrial Arts Education
INT	Industrial Technology
INE	International Education
ITA	Italian
LAT	Latin
LIB	Library Research
MAT	Mathematics
MED	Mathematics Education
MUS	Music
NFS	Nutrition and Food Science
OEC	Occupational Education
PAR	Performing Arts
PHI	Philosophy and Religious Studies
PHY	Physics
PLA	Planning
PSC	Political Science
PSY	Psychology
SAF	Safety Studies
SED	Science Education
SSE/SST	Social Studies Education
SWK	Social Work
SOC	Sociology
SPA	Spanish
SLP	Speech Language Pathology
SWA	Swahili
TEC	Technology
TED	Technology Education
THA	Theater Arts
VTE	Vocational Technical Education

# AFRICAN AND AFRICAN-AMERICAN STUDIES

**Interdisciplinary Unit**  
**M. Babati Kuumba, Coordinator**  
 Sociology Department  
 Classroom Building HB322

**ANT 305**  
**PEOPLES OF AFRICA**  
 3, 3/0; F 99 GCS  
 Cross-cultural comparisons of selected societies of sub-Saharan Africa, emphasizing economic conditions, migrations, indigenous states, linguistics, social structure, aesthetics, religion, prehistory, and physical types.

**ANT 411**  
**AFRICAN SYSTEMS OF KINSHIP AND MARRIAGE**  
 3, 3/0; Sp 00 G  
 Study of the family, kinship, and marriage among the peoples of Africa. Emphasis on the interrelationship of kinship with other aspects of culture.

**CRJ 425**  
**RACE AND THE ADMINISTRATION OF JUSTICE**  
 3, 3/0 D  
*Prerequisite: CRJ 101.* Students will study and assess the current state of race relations in society and the criminal justice system through an examination of the historical experiences of different racial and ethnic groups in the United States, including the use of law and the criminal justice system as a means of social subordination. Such subordination affects the criminality of minority groups, as does the informal aspects of criminal justice such as power, discretion, and authority.

**DAN 230**  
**SURVEY OF AFRICAN-AMERICAN DANCE**  
 3, 1/4; 1999-01 D  
 Technique, practice, readings, and projects in dance and black culture. Current practices of black dance in relation to Euro-American techniques.

**DAN 234**  
**HISTORY OF THE BLACK DANCE MOVEMENT**  
 3, 3/0; offered based on staff availability D  
 A study of the development of African-American dance and the contributions of African-American dancers. Emphasis will be placed on how traditional African dance forms evolved into and influenced the contemporary dance vernacular.

**EDF/AAS 221**  
**THE HISTORY OF BLACK EDUCATION IN AMERICA**  
 3, 3/0; offered based on staff availability  
 An examination of the role of blacks in the American educational system. Relevant information on various changes that have taken place in order to improve or retard education for blacks. The course will explore approaches for providing meaningful education for blacks now and in the future.

**EDF/AAS 222**  
**THE DEVELOPMENT OF MODERN EDUCATION IN AFRICA**  
 3, 3/0; offered based on staff availability  
 A phase of study of educational changes in Africa beginning with the colonial era to the present time. One important aspect of the course will be the examination of the effect of these changes on social and political issues in Africa and abroad.

**ENG 240**  
**AFRICAN-AMERICAN LITERATURE TO 1940**  
 3, 3/0; F 99, 00 D  
 Survey of black American slave narratives, poetry, fiction, essays, and drama, noting the influence of the African oral tradition on the black American writer. The Harlem renaissance of the 1920s and its relation to the development of black revolutionary thought is emphasized.

**ENG 241**  
**AFRICAN-AMERICAN LITERATURE SINCE 1940**  
 3, 3/0; 1999-01 D  
 Survey of black revolutionary thought and artistry in such writers as Richard Wright, William Demby, Ralph Ellison, LeRoi Jones, James Baldwin, Don L. Lee, Gwendolyn Brooks, Nikki Giovanni, John Henrik Clarke, and Ed Bullins.

**GEG 361**  
**GEOGRAPHY OF AFRICA**  
 3, 3/0; offered based on staff availability GCS  
*Prerequisite: Junior or senior standing.* An introduction to the geography of Africa through a systematic discussion of selected prominent environmental and cultural characteristics of the continent and its people. Topics include the physical environment, historical development, population, and economic activities.

**HIS 211**  
**HISTORY OF MODERN AFRICA SINCE 1919**  
 3, 3/0; offered based on staff availability GCS  
 Partition of Africa by European nations; impact of colonial regimes; African resistance movements; drive toward

independence; problems of economic and social change; cultural and intellectual currents in Modern Africa.

**HIS 306**  
**HISTORY OF AFRICA TO 1919**  
 3, 3/0; offered based on staff availability G  
*Prerequisite: HIS 115 or consent of instructor.* Indigenous developments and early empires of Africa; the impact of Islam; Western contact and the slave trade; the development of European colonialisms; the partition of Africa and colonial administrative policies of the European powers; the waning of European power as a result of World War I.

**HIS 322**  
**AFRICAN-AMERICAN HISTORY**  
 3, 3/0; 1999-01 DCS  
 Heritage of black Americans; African-Americans' existence under slavery; their role in influencing historical events; activity in the Civil War period; the freed men during reconstruction; migrations to the north and adjustment to urban life; African-American leaders, institutions, ideas, and their impact on modern America.

**HIS 341**  
**AFRICAN-AMERICANS AND CIVIL RIGHTS**  
 3, 3/0; 1999-01  
 A history of the landmark court decisions, laws, and governmental policies in the area of the civil rights of African-Americans. The course will examine some of the historic relationships between race, racism, law, and public policy in America. The course will also focus on resistance, protest, and the quest for equality in America.

**HIS 468**  
**READINGS IN AFRICAN-AMERICAN HISTORY**  
 3, 3/0; Sp 00, 01 D  
*Prerequisite: Junior or senior standing.* An examination of the major historical writings on selected periods and topics in African-American history. The class activities will include readings, discussion, and writing book reviews and biographical essays.

**HIS 469**  
**BLACK PROTEST AND LEADERSHIP IN THE U.S. IN THE TWENTIETH CENTURY**  
 3, 3/0; offered based on staff availability D  
*Prerequisite: Junior or senior standing.* An examination of the black protest movements and leaders in twentieth-century America.

**MUS 305**  
**MODERN JAZZ**  
 3, 3/0; offered based on staff availability D  
*Prerequisite: MUS 206 or MUS 205.* A study of the history and development of modern jazz from 1941 to the present.

**MUS 340**  
**ETHNOMUSICOLOGY I**  
 3, 3/0; Sp 01 G  
*Prerequisites: MUS 230 and MUS 218 or ANT 101.* Lectures, readings, and recordings introducing the student to various principal musical traditions of selected non-Western cultures, such as African, Indic, and Sinitic; also some consideration of the African-American tradition, including jazz and rock. Individual projects of music or cultural analysis will be assigned.  
*Required for music majors.*

**PSC 218**  
**AFRICAN-AMERICAN POLITICAL CULTURE**  
 3, 3/0; F 99, 00 DCS  
 An urgent evaluation and critical reevaluation of political beliefs, attitudes, and practices that pertain to African-American politics in the cultural context; focus on the causality and linkage inherent in the reciprocal relationship between African-Americans and the American political system.

**PSC 333**  
**AFRICAN INTERNATIONAL RELATIONS**  
 3, 3/0; F 99, 00  
 Examination of African international politics vis-a-vis international relations theory, models, and concepts. Included in such an examination would be the following: power, multipolarity, bipolarity, pan-Africanism, North-South debate, approaches to international politics, and state and international organizations as international actors.

**AAS/SOC 321**  
**THE AFRICAN-AMERICAN FAMILY**  
 3, 3/0; F 99 D  
*Prerequisite: SOC 100.* An exploratory study of the effects of American social institutions upon black American family life, with emphasis on inter-familial relations.

**SOC 351**  
**SOCIOLOGY OF RACE AND ETHNICITY**  
 3, 3/0; Sp 00, 01 DCS  
*Prerequisite: SOC 100.* The analysis of the status of racial and ethnic groups in American and other societies; forms, causes, and effects of prejudice, and ethnic conflicts and the changing relationships of these groups to the larger society.



**AAS/SWA 101  
BEGINNING SWAHILI I**  
3, 3/0; F 99, 00 CH  
A study of the fundamentals of Swahili with emphasis on the spoken and written language.

**AAS/SWA 102  
BEGINNING SWAHILI II**  
3, 3/0; Sp 00, 01 CH  
*Prerequisite:* AAS 101 or consent of instructor. Continuation of AAS/SWA 101.

**AAS/SWA 201  
INTERMEDIATE SWAHILI I**  
3, 3/0; F 99, 01, Upper-level credit  
*Prerequisite:* AAS 102 or consent of instructor. Further development of basic skills, with emphasis on reading and writing.

**AAS/SWA 202  
INTERMEDIATE SWAHILI II**  
3, 3/0; Sp 00, 01, Upper-level credit  
*Prerequisite:* AAS 201 or consent of instructor. Continuation of AAS/SWA 201.

## ANTHROPOLOGY

**Anthropology Department**  
*Jill Nash, Chair*  
Classroom Building B107

**ANT 100  
HUMAN ORIGINS**  
3, 1/0; 1999-01 CS  
An introduction to the fossil and archeological record of humanity. The emergence of the human species and its subsequent development. Exploration of the physical changes which have occurred in the human lineage and changes in our cultural behavior from hunting to farming and an urban life. Recommended as a first or second course in anthropology.

**ANT 101  
UNDERSTANDING CULTURE**  
3, 3/0; 1999-01 GCS  
Culture and human behavior; formative of personality; nature of social structure, interaction, and the satisfaction of human needs; cross-cultural comparison. Recommended as a first or second course in anthropology.

**ANT 144  
INTRODUCTION TO  
FOLKLORE AND FOLKLIFE**  
3, 3/0; 1999-01 DCS  
Introduction to the major genres of folklore and folklife and their function in contemporary society. Includes such topics as ethnic and occupational folklore, rites of passage and calendar

customs, the folksong revival, and the relationship of folklore and popular culture.

**ANT 203  
HUMAN VARIATION**  
3, 3/0; F 99  
Examination of physical variation in human populations; relationship between variation in human populations; relationship between attributes and cultural patterns; genetic basis of human evolution and variation; ecological distribution of human physical varieties with special emphasis on modern human populations.

**ANT 301  
INDIGENOUS PEOPLES OF  
EASTERN NORTH AMERICA**  
3, 3/0; F 00 GCS  
Lifeways of Native Americans of eastern North America; influences from Middle to South America; sub-Arctic and Arctic. Emphasis on cultures of Iroquois and Algonkian-speaking peoples.

**ANT 303  
THE ANTHROPOLOGY OF EUROPE**  
3, 3/0; Sp 00 GCS  
An introduction to the anthropology of Europe and European cultures. Topics discussed will include the diverse peoples and cultures of Western and Eastern Europe, folklife, peasantry, folkarts, and European and Euro-American worldviews. The course will also include discussion of European colonialism and European attitudes about and practices toward other cultural groups.

**ANT 305  
PEOPLES OF AFRICA**  
3, 3/0; F 99 GCS  
Cross-cultural comparisons of selected societies of sub-Saharan Africa, emphasizing economic conditions, migrations, indigenous states, linguistics, social structure, aesthetics, religion, prehistory, and physical types.

**ANT 307  
URBAN ANTHROPOLOGY**  
3, 3/0; Sp 00  
Study of the city as a total social system with special attention to cultural diversity both in terms of backgrounds of foreign countries and of regions within our own country. Students may be requested to carry out organized field research within the city. Recommended for urban studies minors.

**ANT 308  
ARCHEOLOGICAL METHOD**  
4, 4/0  
Laboratory and field methods in archeology will be studied. Opportunity for practical experience with various archeological techniques will be provided.

**ANT 312  
ARCHAEOLOGY  
OF NORTH AMERICA**  
3, 3/0; Sp 00  
*Special note:* ANT 100 is recommended as a prior course. Prehistory of North America beginning with earliest human presence in North America, including the Paleo-Indian period, Archaic, Woodland and Mississippian in the East, and periods comparable in time in the West.

**ANT 315  
RESEARCH METHODS IN  
CULTURAL ANTHROPOLOGY**  
3, 3/0; Sp 00, 01  
*Prerequisite:* Any anthropology course. A study of research methods in cultural anthropology covering field work, participant observation, sampling, measurements, documentation, statistical and cross-cultural methods.

**ANT 320  
HUMAN GROWTH IN  
ANTHROPOLOGICAL PERSPECTIVE**  
3, 3/0; F 00  
*Prerequisite:* A course in the natural or social sciences, or upper-division status, or consent of instructor. An examination of the physical changes that occur from birth through old age. Child-rearing, adolescence, and the role of the elderly in other cultures. The biological and social factors which influence human growth. Methods used by the anthropologist in assessing growth.

**ANT 321  
PRIMATE BEHAVIOR**  
3, 3/0; Sp 01  
*Prerequisite:* A course in the natural or social sciences, or upper-division status, or consent of instructor. The description and analysis of social behavior among non-human primates, with particular attention to monkeys and apes.

**ANT 324  
THE HUMAN SKELETON**  
3, 3/0; Sp 01  
*Prerequisite:* A course in the natural or social sciences, or upper-division status, or consent of instructor. The study of the skeletal remains of past human societies. The structure and functions of the skeleton, age, sex, illness, and injury to the individual. Reconstructing the population, demography, health status, growth patterns, genetic affinities. ANT 324 and ANT/CRJ 325 cannot both be taken for credit.

**ANT 325  
SKELETAL INVESTIGATIONS:  
FORENSIC ANTHROPOLOGY**  
3, 3/0; Sp 00  
*Prerequisite:* Upper-division status, or consent of instructor. An examination of human skeletal anatomy and the

techniques used by forensic anthropologists to identify skeletal remains. Students will work with skeletal material to learn how to determine age, sex, "race," stature, disease, trauma, and other features that aid in personal identification. ANT 324 and ANT 325 cannot both be taken for credit.

**ANT 326  
THE HUMAN FOSSIL RECORD**  
3, 3/0; F 00  
*Prerequisite:* A course in the natural or social sciences or upper-division status. Human evolution as derived from the fossil record. Examination of major fossil hominid discoveries, their interpretation and place in the development of the human species.

**ANT 327  
INTRODUCTION TO  
MEDICAL ANTHROPOLOGY**  
3, 3/0; F 00 G  
*Prerequisite:* Introductory anthropology, or a social science course, or upper-division status. Introduction to medical anthropology and its relevance to contemporary American society. Includes such topics as folk and traditional healing practices, cultural definitions of illness, and modern medical technology.

**ANT 329  
WORLD PREHISTORY**  
3, 3/0; Sp 00  
The aims and methods of prehistoric research and the interpretation of archeological materials. Major stages in the development of culture illustrated in Old and New World contexts.

**ANT 330  
THE ANTHROPOLOGY OF  
OCEANIA**  
3, 3/0; Sp 00 GCS  
*Prerequisite:* A course in the natural or social sciences, or upper-division status, or consent of instructor. A general introduction to the prehistory, physical anthropology, ethnography, and ethnology of Polynesia, Micronesia, Melanesia and Australia, focusing on special problems of current interest.

**ANT 340  
WOMEN IN  
ANTHROPOLOGICAL  
PERSPECTIVE**  
3, 3/0; F 00 GCS  
*Prerequisite:* A course in the natural or social sciences, or upper-division status, or consent of instructor. The study of women's position in human society, with attention given to biological, social, and cultural influences on female status in cross-cultural and evolutionary perspective.

**ANT 360  
FOLKLORE OF WOMEN**  
3, 3/0; Sp 00  
*Prerequisite:* ANT 101 or ANT 144, or a women's studies or social science course, or upper-division status. A survey of women's folklore and contemporary culture; women as traditional creators and performers seen through expressive forms such as singing, songwriting, storytelling, foodways, folk art and crafts, and customary behavior. The course will also consider the role of folklore in the formation of sexual stereotypes.

**ANT 362  
URBAN FOLKLORE**  
3, 3/0; Sp 01  
*Prerequisite:* ANT 101 or ANT 144, or a social science course, or upper-division status. Folklore and folklife in the urban environment; the survival and reshaping of rural and Old World tradition; the function of folklore in the preservation of ethnic identity; craft, industrial and labor traditions, folklife forms (festivals, markets, material culture); contemporary folklore, folklore in the media and popular culture.

**ANT 365  
PRACTICING ANTHROPOLOGY**  
3, 3/0; Sp 01  
This course will discuss the application of anthropology and anthropological perspectives to contemporary community and world issues and problems. Focus will be placed on the practice of anthropology as a career outside academia, in social services, international relations, government positions, community organizing, etc., and the relevance of anthropological principles in day-to-day life.

**ANT 367  
CULTURE AND ECOLOGY**  
3, 3/0 G  
*Prerequisite:* Upper-division status  
An overview of the anthropological study of culture and ecology—environmental anthropology—the evolutionary and comparative study of various cultures' relations, both biological and cultural, to their environments. The course examines industrial and non-industrial adaptations to and understandings of the environment. Topics discussed include human-to-nature relations, the study of place, and environmentalism.

**ANT 370  
THE ANTHROPOLOGY OF  
CONTEMPORARY ISSUES**  
3, 3/0; Sp 01 G  
*Prerequisite:* ANT 101 or consent of instructor. This course provides an anthropological perspective on some of the principal dilemmas of the contemporary world, including technological, demographic, ideological, and

cultural problems which provide much of the content of our daily news and have implications for the survival of our species.

**ANT 377  
ANCIENT CIVILIZATION**  
3, 3/0; F 99  
*Prerequisite:* ANT 100 or ANT 101, or upper-division status, or consent of instructor. An examination of the nature of early civilization as well as possible factors involved in both their rise and fall. Old World civilizations studied will be those in Mesopotamia, Egypt, the Indus Valley, and China. New World civilizations examined will be those in Mesoamerica and Peru. Similarities and differences between all of these civilizations will be considered.

**ANT 380  
LANGUAGE AND CULTURE**  
3, 3/0 G  
Examination of the concepts of language and culture as symbolic systems and an introduction to phonetics, phonemics, morphemics, syntax, and semantics from a cross-cultural and cross-lingual perspective. An exploration of the relationship between grammatical structure and modes of perception and cognition as related to world views and systems of values, with special emphasis on the Sapir-Whorf hypothesis and the work of Chomsky.

**ANT 381  
RELIGION, MYTH, AND MAGIC**  
3, 3/0; Sp 00 CS  
Fetishism (animism), polytheism and monotheism. An in-depth analysis of religion, myth, and magic in prehistoric and primitive societies as well as ancient and contemporary Egypt, Mesopotamia, Asia Minor, North Africa, Iran, India, China, Japan, and the world of Islam. Their bearing on the Judeo-Christian tradition. Recommended for religious studies minors.

**ANT 382  
CULTURE AND PERSONALITY**  
3, 3/0  
*Prerequisite:* A course in the natural or social sciences, or upper-division status, or consent of instructor. A cross-cultural study of the role of individual variable genetic potentials and socioculturally variable norms, structures of modal and deviant personalities.

**ANT 384  
CULTURE, SOCIAL  
CONTROL, AND LAW**  
3, 3/0; Sp 00 G  
Anthropology of law and social control, an evolutionary, comparative cross-cultural, and ethnographic approach. Conflict resolution, legal culture in various cultural groups (egalitarian, peasant, "deviant" subcultures,

industrial bureaucracies, the legal profession). Practical issues for the study of legal systems, legal and illegal behavior.

**ANT 389  
TOPICS IN ANTHROPOLOGY**  
3, 3/0  
*Prerequisite:* A course in the natural or social sciences, or upper-division status, or consent of instructor. Analysis of current areas of research interest in anthropology. Emphasis will be placed on using concepts and methods from the subfields of anthropology to study a specific problem or series of problems.

**ANT 405  
HISTORY OF  
ANTHROPOLOGICAL THOUGHT**  
3, 3/0; F 00  
Study of the important contributions to the development of anthropological theory from the preanthropological philosophers such as Locke to the present. Included among the theorists will be Darwin, Tylor, Boas, Kroeber, Rivers, Malinowski, Levi-Strauss, and Sapir. Required of all anthropology majors. ANT 101 is strongly recommended as a prior course.

**ANT 411  
AFRICAN SYSTEMS  
OF KINSHIP AND MARRIAGE**  
3, 3/0; Sp 00 G  
Study of the family, kinship, and marriage among the peoples of Africa. Emphasis on the interrelationship of kinship with other aspects of culture.

**ANT 412  
SEMINAR IN ANTHROPOLOGY**  
3, 3/0  
Anthropology has four areas of research: physical anthropology, archeology, ethnology, and linguistics. This seminar will attempt to examine and criticize literature of one of these four fields. Students may be required to do research.

**ANT 415  
SEMINAR IN ARCHEOLOGY**  
3, 3/0; F 00  
*Prerequisite:* A course in the natural or social sciences, or upper-division status, or consent of instructor. A survey of the field of archeology, which includes the examination of particular cultures as well as discussion of major methodological and theoretical issues.

## ART EDUCATION

**Art Education Department**  
*Michael E. Parks, Chair*  
Bishop Hall 103

All studio courses in art education require at least two hours per week of outside preparation in addition to the regular class meetings. For those courses in which the use of the studio is necessary for additional work, the instructor will schedule times when it will be open. Students are expected to assume the costs of materials they use in courses. All studio courses may have a charge for materials.

**AED 100  
ESSENTIALS OF VISUAL ARTS**  
3, 2/2; 1999-01 CA  
The development of visual and perceptual awareness through expressive learning processes inherent in the visual arts. Art experience with a variety of media that will accommodate individual interpretations of art concepts which generate the formations, judgments, and decisions of a liberally educated individual. Open to non-art majors only.

**AED 200  
FUNDAMENTALS OF ART INQUIRY**  
3, 3/0; 1999-01 CA  
A study of functional and common-sense procedures for establishing valid criteria for making judgments about art as it is reflected in all areas of human concern. Instruments of language and logic are examined and tested on how they are useful to the inquiry.

**AED 300  
FOUNDATIONS IN ART EDUCATION**  
3, 2/2; 1999-01  
*Prerequisite:* Art education major or consent of the department chair and completion of math and English basic competency requirements. An introductory course which serves as an entry to the professional program. A review which provides a basic understanding of art education and its relationship to the arts/education careers and society. Required for art education majors.

**AED 301  
THEORETICAL CONSTRUCTS  
IN ART EDUCATION**  
3, 2/2; 1999-01  
*Prerequisite:* Art education major, AED 300, and at least one course in psychology or consent of the department chair, and AED 200. From the prerequisite study of the broad field of art and education, this course focuses on specific information and theories relevant to the teaching of art. Students will examine teaching models based on art education



theories formulated to accommodate students' pre-professional interests and needs in the context of the observed and theoretically stimulated teaching situations.

*Required for art education majors.*

**AED 302  
FUNCTIONS AND  
PRACTICE IN ART EDUCATION**  
3, 2/2; 1999-01

*Prerequisite:* Art education major, AED 300, AED 301, AED 398, at least one course in sociology/anthropology, or consent of the department chair, and AED 315. This course will direct students to identify art content and processes necessary in the design of instructional planning, implementation, and evaluation of these art concepts. These skills will be gained and tested by practica in mini-teaching and/or participation teaching.

*Required for art education majors.*

**AED 303  
ELEMENTARY  
STUDENT-TEACHING IN ART**  
6, full-time, 1/2 semester; 1999-01

*Prerequisite:* Art education major, AED 302, satisfaction of departmental requirements, approval of AED Coordinator of Student Teaching, and ATS 325. Supervised teaching at assigned levels from kindergarten through sixth grade, in various types of schools and communities; seminar discussions on professional problems of the beginning teacher.

*Required for art education majors.*

**AED 304  
SECONDARY STUDENT  
TEACHING IN ART**  
6, full-time, 1/2 semester; 1999-01

*Prerequisite:* Art education major, AED 302, satisfaction of departmental requirements, approval of AED Coordinator of Student Teaching, and ATS 325. Supervised student teaching at assigned levels from seventh grade through senior high school, in various types of schools and communities; conferences devoted to planning and evaluating teaching experiences; seminar discussions on professional problems of the beginning teacher.

*Required for art education majors.*

**AED 310  
ART MATERIALS EXPLORATION  
FOR GROUP ACTIVITIES**  
3, 2/2; F 99, 01

*Prerequisite:* One visual arts studio course for non-art majors; DES 101, DES 103, FAR 101, FAR 102 for art education majors. Exploratory materials experiences basic to art activities. Class efforts will be directed toward activities-oriented processes and their ultimate use in group art activities which can occur in a variety

of agency, institutional, and recreational contexts. *Required for art therapy studies minors.*

**AED 315  
ARTS IN LIVING**  
3, 2/2; 1999-01 CA

*Prerequisite:* Any one art course. A study of contemporary and historic art forms as they apply to everyday living. An analysis of the individual significance and interrelatedness of architecture, industrial design, the graphic arts, painting, sculpture, music, and the theater arts. Participation in creative activities related to the course.

*Required for art education majors.*

**AED 319  
ART FOR ELEMENTARY AND  
EXCEPTIONAL EDUCATION  
CLASSROOM TEACHERS**  
3, 2/2; 1999-01

*Prerequisite:* Elementary, exceptional education, and social work majors or consent of instructor. A study of children's expressive abilities, interests, and needs in relation to art at several developmental levels. The management of media as an agent for developing skills, inquiry, and appreciation of the artistic process. Studio experiences with processes and materials used in elementary school settings.

**AED 398  
COMPUTER APPLICATIONS  
FOR ART EDUCATORS**  
3, 0/3; 1999-01

An in-depth laboratory experience which serves to expose art education students to a basic understanding of the computer and software. Students will explore uses of the computer in the public school art classroom.

*Required for art education majors.*

**AED 400  
STUDENT TEACHING SEMINAR**  
3, bi-weekly/6; 1999-01

The relationship of art education theories to teaching practices utilized in the contemporary school art program; the identification of crucial issues in art education; problems of beginning art teachers; and the value of current professional literature in the resolution of issues and problems.

*Required for art education majors.*

*To be taken concurrently with or immediately following student teaching.*

**AED 488  
INTERNSHIP**  
1-15

*Prerequisite:* Upper-division status and/or consent of instructor, 2.5 GPA, and background coursework appropriate to the internship setting. Internship programs provide students with guided and supervised field experiences (experiential learning) as part

of their degree programs. An internship shall consist of supervised activities for qualified students in community based agencies or settings in which interns will apply and enhance knowledge gained through formal instruction demonstrating operational skills, as practitioners in prospective specializations.

**AED 495  
PROJECT**  
Credits, hours vary; 1999-01

*Prerequisite:* Junior or senior standing. Project undertaken and meeting hours arranged individually with instructor.

**AED 499  
INDEPENDENT STUDY**  
1999-01

*Prerequisite:* Sophomore, junior, or senior standing. Minimum 2.5 GPA (overall, previous semester, and in study area courses). Studies arranged and meeting hours undertaken individually with instructor.

**ATS 320  
INTRODUCTION TO ART THERAPY**  
3, 2/2; 1999-01 CA

*Prerequisite:* One visual arts studio course or consent of instructor. Initial exploration of art as a mode of human expression for children and adults in therapeutic settings such as special education classes, mental health clinics, development centers, community centers, etc. Volunteer work in human service agency.

*Required for art therapy studies minors.*

**ATS 325  
ARTS AND SPECIAL NEEDS**  
3, 2/2; 1999-01 D

*Prerequisite:* For art therapy minors, ATS 320 and one human service course. In-depth exploration of theoretical and practical relationships within art programs which are designed to serve people with exceptional needs in schools and other human-service agency settings. Art activities as a diagnostic agent and as a means for establishing settings which promote individual growth, self-awareness, self-concept development, and self-expression. Supervised field work in special education settings.

*Required for art therapy studies minors and all art education majors.*

## BIOLOGY

### Biology Department

Randal J. Snyder, Chair  
Science Building 314

**BIO 100  
PRINCIPLES OF BIOLOGY**  
3, 3/0; 1999-01 CM

A consideration of the unifying principles of modern biology, with special emphasis on cell biology, metabolism, and genetics.

*Open to non-majors only.*

**BIO 101  
HUMAN BIOLOGY**  
3, 3/0; 1999-01 CM

Biological principles relating to the human condition with particular emphasis on physiology of normal body function with regard to nutrition, disease, psychoactive agents, reproduction and contraception, and aging. Contemporary health-related issues will also be discussed.

*Open to non-majors only.*

**BIO 104  
ENVIRONMENTAL BIOLOGY**  
3, 3/0; 1999-01 GCM

Biological aspects of global environmental problems. Principles of ecology.

*Open to non-majors only.*

**BIO 115  
GENERAL BOTANY**  
4, 3/3; 1999-01 CM

Morphology, physiology, phylogeny, reproduction, and adaptation of plants.

**BIO 116  
GENERAL ZOOLOGY**  
4, 3/3; 1999-01 CM

Morphology, physiology, phylogeny, reproduction, and adaptation of animals.

**BIO 210  
BACTERIOLOGY**  
3, 2/2; F 99, 00

*Prerequisite:* BIO 100. Morphology and physiology of bacteria; general application to household science, sanitation, hygiene, and infectious disease.

*Open to non-majors only.*

**BIO 214  
INTRODUCTION TO CELL BIOLOGY**  
4, 3/3; 1999-01

*Prerequisite:* CHE 111-CHE 112. Structure of biological macromolecules; organization of eukaryotic and prokaryotic cells and basic cell processes.

**BIO 303  
GENETICS**  
4, 3/3; 1999-01

*Prerequisite:* BIO 115, BIO 116, and BIO 214. Principles of heredity; inheritance of specific plant, animal, and human traits; biochemical aspects of the gene; relationship of genetics to evolution.

**BIO 305  
MOLECULAR BIOLOGY**  
4, 3/3; F 99, 00

*Prerequisite:* BIO 115, BIO 116, BIO 214, and CHE 201. Structure, organization, and function of living matter at the molecular level.

**BIO 308  
HUMAN ANATOMY AND  
PHYSIOLOGY**  
3, 3/0; F 99, 00 CM

*Prerequisites:* BIO 100 and upper-division status. Study of the physiology and pertinent anatomy of the major organ systems of the human body including consideration of clinical health and disease.

*Not eligible for biology elective credit for B.A. Biology majors.*

**BIO 309  
LABORATORY IN HUMAN  
ANATOMY AND PHYSIOLOGY**  
1, 0/3; F 99, 00 CM

*Prerequisites:* BIO 100 and upper-division status. Study of the human anatomy and functions of the major anatomical systems of humans using the techniques of rigorous dissections of animals (e.g. cats and sheep organs) and physiological experiments.

*Not eligible for biology elective credit for B.A. Biology majors.*

**BIO 314  
ADVANCED CELL BIOLOGY**  
4, 3/3; Sp 00, 01

*Prerequisite:* BIO 115, BIO 116, BIO 214, and CHE 201. An in-depth examination of the cell. The emphasis in this course reflects the contribution of the molecular approach to the understanding of cell structure and functions, in particular, the contribution of recombinant DNA technology.

**BIO 315  
ECOLOGY**  
4, 3/3; 1999-01

*Prerequisites:* BIO 115 and BIO 116; CHE 111-CHE 112. Ecosystems, biotic communities, interspecific and intraspecific relationships, biogeochemical cycles, energy flow, population ecology, introduction to analysis of community composition; effects of humanity in modifying natural environments. Several half-day or all-day field trips may be required.

**BIO 316  
MICROBIOLOGY**  
4, 2/6; Sp 00, 01

*Prerequisite:* BIO 214. Microorganisms and techniques of observing their morphology, growth characteristics and distribution; the relationship of microorganisms to human activities.

**BIO 321  
COMPARATIVE VERTEBRATE  
ANATOMY**  
4, 3/3; offered based

*on staff availability*  
*Prerequisites:* BIO 116 and upper-division status. Study of the function, evolution, and development of the diversity of vertebrate structure. Required laboratory exercises include rigorous dissections of representative vertebrate morphologies (e.g. preserved sharks, amphibians, cats, etc.).

**BIO 322  
HUMAN HEREDITY**  
3, 3/0; offered based

*on staff availability*  
*CM*  
*Prerequisite:* BIO 100 and upper-division status. A course in human inheritance and social implications of genetics to modern society.

*Open to non-majors only.*

**BIO 324  
BIOLOGY OF HUMAN  
REPRODUCTION**  
3, 3/0; offered based

*on staff availability*  
*CM*  
*Prerequisite:* BIO 100 and upper-division status. A course in the anatomy and physiology of the human reproductive system, development of the human embryo, and the processes of birth and lactation.

*Open to non-majors only.*

**BIO 325  
ICHTHYOLOGY**  
4, 3/3; offered based

*on staff availability*  
*Prerequisite:* BIO 116. Study of the biology of fishes: structure and function (anatomy and physiology), systematics, evolution, diversity, zoogeography, and ecology.

**BIO 361/362  
BIOLOGY SEMINAR**  
1, 1/0; offered based

*on staff availability*  
A series of weekly presentations of invited personnel. Class meetings are open to any interested person, and biology majors are especially urged to attend throughout their college careers.

**BIO 402  
COMPARATIVE ANIMAL  
PHYSIOLOGY**  
4, 3/3; Sp 00, 01

*Prerequisites:* BIO 116, BIO 214, and CHE 201. Study of hormonal control, neural processing, sensory mechanisms, circulation, gas exchange, digestion, muscles, energetics, and ther-

moregulation using vertebrate and invertebrate examples.

**BIO 405  
ORGANIC EVOLUTION**  
3, 3/0; 1999-01

*Prerequisite:* BIO 305 and BIO 315. A study of the empirical foundation of evolutionary theory; emphasis will be on the dynamics of the process of evolution, especially as it relates to individual variation within an interbreeding population, to the variation pattern on the population level, and to the origin of the species; more recent trends, such as introgressive hybridization, polyploidy, apomixis, and genetic homeostasis will be developed.

**BIO 406  
BIOMETRICS**  
4, 3/3; F 99, 00

*Prerequisite:* College algebra and upper-division status. Quantitative aspects of biology, with analysis of biological data and its relationship to experimental design. Fundamentals of probability with applications to biological problems. Statistical decision-making applied to measurement and enumeration data.

**BIO 408  
PLANT PHYSIOLOGY**  
4, 3/3; offered based

*on staff availability*  
*Prerequisite:* BIO 115, BIO 214, and CHE 201. Physiological processes in plants, including photosynthesis, respiration, osmosis, translocation, transpiration, effects of hormones, soil nutrients and tropisms.

**BIO 411  
ANIMAL PARASITOLOGY**  
4, 3/3; offered based

*on staff availability*  
*Prerequisite:* BIO 116. Principles of parasitology. Morphology, immunology, physiology, biochemistry, and ecology of parasites; life cycles, identification and pathological effects of representative parasites; control and treatment; significance of parasitism to human health.

**BIO 412  
EMBRYOLOGY**  
4, 3/3; offered based

*on staff availability*  
*Prerequisite:* BIO 116, BIO 214, and CHE 201. Principles and processes of chordate embryology, with emphasis on cellular and molecular mechanisms and development.

**BIO 414  
MAMMALOLOGY**  
3, 2/3; offered based

*on staff availability*  
An introduction to the study of mammals, living and extinct, including a survey of the diversity of mammalian life history strategies, behavior, ecology, morphology and physiology.

Required exercises include field trips, collection techniques, and preparation of study materials.

**BIO 417  
FIELD MYCOLOGY**  
3, 2/3; offered based

*on staff availability*  
*Prerequisite:* BIO 115. Study of identification, morphology, ecology, and economic importance of the fungi most often encountered in natural environmental situations. Emphasis will be placed on the myxomycetes, ascomycetes, and basidiomycetes.

*Field work required.*

**BIO 418  
LIMNOLOGY**  
4, 3/3; offered based

*on staff availability*  
*Prerequisite:* BIO 115, BIO 116, BIO 315, and CHE 112. Study of the physical, chemical, and biological factors influencing freshwater life, and the ecological interactions in freshwater communities. Lectures, demonstrations, and field trips.

**BIO 421  
INVERTEBRATE STRUCTURE  
AND FUNCTION**  
3, 2/2; offered based

*on staff availability*  
*Prerequisite:* BIO 116. A functional approach to the morphology, physiology, adaptation, ecology, reproduction, and evolution of the invertebrates.

**BIO 425  
MORPHOLOGY OF NONVASCULAR  
PLANTS AND FUNGI**  
4, 3/3; offered based

*on staff availability*  
*Prerequisites:* BIO 115 and BIO 214. A study of the comparative structures, reproductive cycles, and phyletic relationships among the non-vascular plants and fungi. Interactions between structure and function and ecological adaptations will be considered.

**BIO 426  
MORPHOLOGY OF  
VASCULAR PLANTS**  
4, 3/3; offered based

*on staff availability*  
*Prerequisite:* BIO 115 and BIO 214. A study of the comparative structures, reproductive cycles, and phyletic relationships among the vascular plants. Interactions between structure and function and ecological adaptations will be considered.

**BIO 428  
VERTEBRATE STRUCTURE  
AND FUNCTION**  
4, 3/3; offered based

*on staff availability*  
*Prerequisite:* BIO 116. A comparative study of vertebrates with emphasis on their anatomy, adaptations, ecology, and phylogenetic relationships.



**BIO 429**  
**FISHERIES BIOLOGY**  
 4, 3/3; offered based  
 on staff availability  
*Prerequisites:* BIO 116 and BIO 315.  
 Study of the ecology and management of fish populations; sampling techniques (including stocking, hatcheries, and aquaculture programs), and feeding, behavior, and life history of fishes.

**BIO 450**  
**RECOMBINANT DNA TECHNOLOGY**  
 4, 2/4; offered based  
 on staff availability  
*Prerequisite:* BIO 314, BIO 316, and BIO 305. This course is designed to provide the student with extensive "hands on" experience using the techniques of biotechnology. The techniques involving the construction of recombinant DNA molecules and their analysis will be emphasized.

**BIO 488**  
**BIOLOGY INTERNSHIP**  
 1999-01  
 The internship program is designed to provide the student with an opportunity to apply learned principles and methodologies in a workplace setting. Students should have junior or senior standing and both a cumulative GPA and a GPA in the major of at least 2.5. Students must apply for the program and be approved by a faculty adviser and the department chair before enrolling as a student intern.

**BIO 495**  
**PROJECT**  
 1999-01  
*Prerequisite:* Approval of the faculty adviser and department chair must be secured prior to registration.

**BIO 498**  
**HONORS RESEARCH**  
 3, 0/9; 1999-01  
*Prerequisite:* Acceptance by the Biology Honors Committee and approval of the faculty adviser. The honors biology student will conduct an individual investigation of an original problem. After two semesters of honors research, the student will submit a written paper and present the data orally at a scientific meeting or in a department seminar. Minimum of six semester hours required for Honors certification.

**BIO 499**  
**INDEPENDENT STUDY**  
 1999-01  
*Prerequisite:* Approval of faculty adviser and department chair must be secured prior to registration.

## BUSINESS

**Business Department**  
*Michael J. Littman, Chair*  
 Chase Hall 302

**BUS 116**  
**INTRODUCTION TO BUSINESS**  
 3, 3/0; 1999-01 CT  
 An investigation of modern business functions; economic and social aspects, organization and management, operations, marketing functions, management control and decision making, financial risk and management, and career information for a changing business climate.

**BUS 117**  
**INTRODUCTION TO RETAILING**  
 3, 3/0; 1999-01 CT  
 Role and function of retailing as a channel of distribution, the relationship and responsibilities to the producer and to the consumer.

**BUS 212**  
**INTRODUCTION TO ACCOUNTING**  
 3, 3/0; offered based  
 on staff availability  
 An introduction to the accounting cycle and double-entry bookkeeping. Students analyze business transactions, apply rules of debits and credits, and prepare income statements and balance sheets.

**BUS 300**  
**INTERNATIONAL BUSINESS**  
 3, 3/0; 1999-01 G  
 A survey course of concepts, theory, and practice of international business and the multi-national corporation. Course provides for a better understanding of the global nature of the world economy. Environmental constraints, regional issues, and functional business operations will be covered.

**BUS 312**  
**PRINCIPLES OF ACCOUNTING**  
 3, 3/0; 1999-01  
*Prerequisite:* Math competence, sophomore standing. An introduction to fundamental accounting theories and methods, underlying financial statements, and the use of accounting information by decision-makers.

**BUS 313**  
**PRINCIPLES OF ACCOUNTING II**  
 3, 3/0; 1999-01  
*Prerequisite:* BUS 312. Managerial accounting focuses on accumulating, processing, reporting, and interpreting decision-relevant financial information which are used in managing an organization. Topics include cash flow analysis, time value of money, cost behavior, budgeting, and elements of cost accounting.

**BUS 320**  
**PRINCIPLES OF MARKETING**  
 3, 3/0; 1999-01  
*Prerequisite:* Business major. Survey course that provides students with concepts, principles, and strategies used in the marketing of products and services.

**BUS 323**  
**SALES METHODS AND TECHNIQUES**  
 3, 3/0; F 99, 00  
*Prerequisite:* BUS 320. This course provides a foundation in sales principles and techniques. Emphasis is on personal development of sales skills, analysis of the characteristics, behavior, and motivation of buyers, and use of the selling process to achieve customer satisfaction.

**BUS 324**  
**BUSINESS COMMUNICATION**  
 3, 3/0; 1999-01  
*Prerequisite:* Junior standing, English competency. This course provides students with an understanding of the fundamental principles and tools for effective communication within organizations. Experimental exercises assist in development of skills in written and oral communication.

**BUS 325**  
**HUMAN RESOURCE MANAGEMENT**  
 3, 3/0; 1999-01  
*Prerequisite:* Business major. Human resource management is a critical business activity in today's modern multicultural environment. This course provides a theoretical and practical knowledge in the major areas of human resource management including selection, training, developing, evaluating, and compensating employees.

**BUS 326**  
**INTRODUCTION TO MERCHANDISING**  
 3, 3/3; offered based  
 on staff availability  
*Prerequisite:* BUS 117; junior or senior standing. The science of merchandising management together with the trends of merchandising.

**BUS 327**  
**ADVERTISING CONCEPTS AND PRACTICES**  
 3, 3/0; 1999-01  
*Prerequisite:* BUS 320. This introduction to the field of advertising includes discussion of research, target marketing, media selection and evaluation, goal setting and budgeting, and the development of advertising campaigns.

**BUS 328**  
**ADVANCED ADVERTISING CAMPAIGN MANAGEMENT**  
 3, 3/0; offered based  
 on staff availability  
*Prerequisite:* BUS 327. Principles of communication and advertising in non-print media. Coordination of sales promotion activities and its effect on business, organizations, industries, and individuals.

**BUS 329**  
**SALES MANAGEMENT**  
 3, 3/0; Sp 00, 01  
*Prerequisite:* Business major. This course examines the sales management function within modern organizations including sales force operation, sales strategies, leadership, ethics, motivation, and recruitment, selection, and motivation of staff. Presents sales management as a vital business function within the context of a global economy.

**BUS 334**  
**BUSINESS LAW I**  
 3, 3/0; 1999-01  
*Prerequisite:* Business major. A survey of legal principles applicable to business enterprises and operations. Topics such as the following will be considered: the advisory and judicial systems; business organizations; contracts and sales; commercial paper; secured transactions; property; torts; and appropriate sections of the Uniform Commercial Code.

**BUS 335**  
**BUSINESS LAW II**  
 3, 3/0; 1999-01  
*Prerequisite:* BUS 334. An advanced course in business law which examines such topics as: the nature of real and personal property; trusts, wills and estates; creditor's rights and secured transactions; government regulation of business; administrative law; insurance, and evidence. Other selected topics may include taxation of income, arbitration in resolving contract disputes and Rule 10 B-5 of the Securities and Exchange Commission.

**BUS 336**  
**VISUAL MERCHANDISING**  
 3, 3/0; offered based  
 on staff availability  
*Prerequisite:* BUS 117; DES 105 recommended. Principles of display through application, experimentation, and evaluation of basic techniques and its importance in selling merchandise. Use of color, harmony, and arrangement.

**BUS 340**  
**SECURITIES**  
 3, 3/0; F 00  
*Prerequisite:* BUS 116 or BUS 117; junior standing or consent of instructor. A study of securities and the securities market. An overview of the subject matter with special emphasis on the operations and the securities market, the role it plays in the economy, and its interaction with the macroeconomic system.

**BUS 341**  
**COMMODITIES**  
 3, 3/0; Sp 00, 01  
*Prerequisite:* BUS 116 or BUS 117; junior standing or consent of instructor. A study of commodities futures trading; special emphasis on terminology, hedging procedures, trading procedures, and price-making influences.

**BUS 347**  
**RETAIL MANAGEMENT**  
 3, 3/0; offered based  
 on staff availability  
*Prerequisite:* Business major. Introduction to trends and developments in retailing and to the operation of retail organizations. Major topics include strategic planning, financial control, merchandising, site selection, store organization, pricing, and promotion.

**BUS 350**  
**CURRENT PRACTICES IN BUSINESS COMPUTING**  
 3, 3/0; 1999-01  
*Prerequisite:* Business major. This course provides students with instruction in the use of information technology and business computer applications including spreadsheets, graphic presentation, networking, database management, word processing, and office automation. Emphasis on preparing the student to use computers and computer-based information in the decision-making process.

**BUS 360**  
**PRINCIPLES OF MANAGEMENT**  
 3, 3/0; 1999-01  
*Prerequisite:* Business major. Introduces students to the basic functions of management including strategic and operational planning, developing organizational structure and behavior, leadership, motivation, and effective control systems.

**BUS 365**  
**ENTREPRENEURSHIP**  
 3, 3/0; 1999-01  
*Prerequisite:* Business major. The course addresses the functions performed by entrepreneurs such as searching for opportunities, and gathering resources to convert the opportunities into growth oriented,

profitable ventures. Students will conduct research, identify opportunities and prepare a business plan.

**BUS 378**  
**BUSINESS PROFESSIONAL PRACTICE**  
 3, 3/0; 1999-01  
 Students in the business major may elect to take up to 12 credit hours of field experience. An introductory, part-time experience would most likely generate three credit hours, whereas a full-time culminating experience could generate as many as 12 credit hours. Credit, training, and evaluation criteria to be arranged by business instructor in charge of field experience.

**BUS 403**  
**CONSUMER BEHAVIOR**  
 3, 3/0; 1999-01  
*Prerequisite:* BUS 320. The course examines psychological, sociological, and cultural factors that influence consumer behavior and decision making. Emphasis is on the importance of understanding consumer behavior in formulating marketing programs and marketing strategies.

**BUS 404**  
**MARKETING RESEARCH**  
 3, 3/0; 1999-01  
*Prerequisite:* BUS 320. Study research methods and techniques used to collect data and provide information for solving marketing problems. The course covers the research process including: design, sampling, data collection, analysis and interpretation, and report preparation. The orientation is from the perspective of users of marketing research.

**BUS 410**  
**ACCOUNTING ANALYSIS**  
 3, 3/0; offered based  
 on staff availability  
*Prerequisite:* BUS 313; junior standing. Use of accounting concepts and techniques in preparing, presenting, and interpreting the accounting information used by management in planning and controlling the operations of the firm. Introduction to management fundamentals and economic concepts of the firm.

**BUS 412**  
**INCOME TAXATION**  
 3, 3/0; offered based  
 on staff availability  
 Fundamentals of federal income taxation. Course will stress the concepts related to gross income, deductions, credits, and property transactions.

**BUS 413**  
**TAXATION OF CORPORATIONS**  
 3,3/0; offered based  
 on staff availability  
 Covers federal income taxation of corporations and shareholders; includes organizing a corporation; establishing capital structure; determining tax liability; dividends and other non-liquidating distributions; stock redemptions and liquidations; and S corporations.

**BUS 420**  
**INTERNATIONAL MARKETING**  
 3, 3/0; offered based  
 on staff availability  
*Prerequisite:* BUS 320. This course will focus on the concepts, theory, and practice of international marketing. The course examines the competitive global environment, trade issues, cultural factors, and global marketing strategy formulation and implementation.

**BUS 424**  
**INTERNATIONAL BUSINESS COMMUNICATION**  
 3, 3/0; offered based  
 on staff availability  
*Prerequisite:* BUS 324. This course prepares students for the complex communication tasks they will encounter in the world of international business. This course will examine the many cultural aspects that influence communication including language, environment and technology, social organization, contexting, authority conception, nonverbal communication, and temporal conception. Emphasis is on understanding social and cultural differences and developing effective communication strategies for the global corporation.

**BUS 426**  
**CREATIVE OPPORTUNITIES IN MANAGEMENT PRACTICES**  
 3, 3/0; offered based  
 on staff availability  
*Prerequisite:* BUS 360 and BUS 325; junior or senior standing. Designed to provide a detailed analysis of creative problem solving techniques. A variety of case problems and business projects will reinforce the management functions and approaches. Places students in the role of an individual manager and team member as the class experiences practical application of management theory.

**BUS 428**  
**ADVANCED MERCHANDISING**  
 3, 3/0; offered based  
 on staff availability  
*Prerequisite:* BUS 326 or consent of instructor. Techniques of merchandising fashion apparel, accessories, housewares, major and minor appliances, and furniture. Major approaches used in planning and ana-

lyzing sales and stock records and the use of operating and financial data to make profitable merchandising decisions, as well as market planning.

**BUS 430**  
**BUSINESS STRATEGIES**  
 3, 3/0; 1999-01  
*Prerequisite:* Business major. A study of the methods and techniques commonly used in strategic management decision making. Course provides students with a background in strategic analysis and implementation of strategy in a competitive global environment. Employs competitive simulations, case studies, and applied research projects.

**BUS 440**  
**BUSINESS SENIOR SEMINAR**  
 3, 3/0; 1999-01  
*Prerequisite:* BUS 116 or BUS 117; seniors only. Designed to help business students in the transition to professional employment. Will cover such areas as career paths and employment opportunities, employee benefit packages and policies, Affirmative Action programs, Equal Employment Opportunity, on-the-job considerations, and other related subjects.

**BUS 460**  
**PRODUCTION AND OPERATIONS MANAGEMENT**  
 3, 3/0; offered based  
 on staff availability  
*Prerequisite:* BUS 360. An overview of the major concepts and models in the production and operations process in manufacturing and services organizations. The course includes a detailed examination of production systems, materials planning, project management, and quality.

**BUS 473**  
**INTERNATIONAL MANAGEMENT**  
 3, 3/0; 1999-01  
 The management of international businesses is becoming an increasingly important skill. Through an approach that blends theory and practical exercises, students will learn the fundamentals of managing in a global economy.

**BUS 490**  
**FIELD EXPERIENCE**  
 Credit to be arranged  
*Prerequisite:* Junior or senior standing. Provides non-business students the opportunity to have experience related to their majors in public or private agencies, business organizations, educational institutions. Registration by permission of the faculty. Obtain necessary forms in Chase Hall 301.



## CHEMISTRY

**Chemistry Department**  
**Gregory W. Ebert, Chair**  
 Science Building 313

### CHE 100 CHEMISTRY AND SOCIETY

3, 3/0; 1999-01 CM  
 A non-mathematical approach to the study of matter. Presentation of the fundamentals of chemistry followed by such socially-relevant subjects as toxic waste management, environmental pollution, space technology, agricultural chemistry, chemistry of consumer products, food processing, polymers and plastics.

### CHE 101 GENERAL CHEMISTRY I

3, 2/3; 1999-01 CM  
 Basic principles of chemistry, including atomic and molecular structure. Gases, liquids, solids, and solutions. Chemical reactions; acids and bases.  
*Not open to chemistry majors.*

### CHE 102 GENERAL CHEMISTRY II

3, 2/3; 1999-01 CM  
*Prerequisite:* CHE 101. A continuation of General Chemistry I; includes chemical equilibria, electrochemistry, metals and non-metals, some fundamentals of organic chemistry, polymers, fibers and plastics, natural products, some fundamentals of biochemistry.  
*Not open to chemistry majors.*

**CHE 111  
FUNDAMENTALS OF CHEMISTRY I**  
 4, 3/3; 1999-01 CM  
 Fundamental principles of chemistry, with illustrative laboratory work of a quantitative nature.  
*Required for all chemistry and forensic chemistry majors.*

**CHE 112  
FUNDAMENTALS OF CHEMISTRY II**  
 4, 3/3; 1999-01 CM  
*Prerequisite:* CHE 111. A continuation of Fundamentals of Chemistry I; to develop the concepts of kinetics, equilibria, and energetics as preparative materials for further study in chemistry or other areas of science. Laboratory work in semi micro qualitative inorganic analysis and physiochemical experiments.  
*Required for chemistry and forensic chemistry majors.*

**CHE 201  
ORGANIC CHEMISTRY I**  
 3, 3/0; 1999-01  
*Prerequisite:* CHE 112. Chemistry of carbon compounds. Bonding, stereochemistry, and structure theory.

Fundamental reactions of the functional groups considered from the mechanistic standpoint.

**CHE 202  
ORGANIC CHEMISTRY II**  
 3, 3/0; 1999-01  
*Prerequisite:* CHE 201. A continuation of CHE 201.

**CHE 203  
ORGANIC CHEMISTRY  
LABORATORY I**  
 1, 0/3; 1999-01  
*Prerequisite:* CHE 201 or concurrent registration. An introduction to basic organic laboratory operations. Methods of isolation, purification, and identification of organic compounds. Experiments will be chosen from a variety of possible topics such as synthesis, qualitative organic analysis, and mechanistic studies.

**CHE 204  
ORGANIC CHEMISTRY  
LABORATORY II**  
 1, 0/3; 1999-01  
*Prerequisite:* CHE 202 or concurrent registration and CHE 203. A continuation of CHE 203.

**CHE 301  
ANALYTICAL CHEMISTRY**  
 4, 2/6; Sp 00, 01  
*Prerequisite:* CHE 112. Theory and laboratory applications of quantitative analytical chemistry. Gravimetric, volumetric, electrochemical, and spectrophotometric methods will be covered.

**CHE 305  
PHYSICAL CHEMISTRY I**  
 3, 3/0; F 99, 00  
*Prerequisite:* CHE 202, MAT 263, and PHY 112. A study of the laws governing the behavior of chemical systems (thermodynamics, kinetic theory of gases, and the structure of matter).

**CHE 306  
PHYSICAL CHEMISTRY II**  
 3, 3/0; Sp 00, 01  
*Prerequisite:* CHE 305. Applications of thermodynamics to physical and chemical equilibria. The statistical and quantum basis for chemical structure and reactivity.

**CHE 307  
PHYSICAL CHEMISTRY  
LABORATORY I**  
 1, 0/3; F 99, 00  
*Prerequisite:* CHE 204, CHE 301, and CHE 305 or concurrent registration. A laboratory study of fundamental chemical principles.

**CHE 308  
PHYSICAL CHEMISTRY  
LABORATORY II**  
 1, 0/3; Sp 00, 01  
*Prerequisite:* CHE 307 and CHE 306, or concurrent registration. A laboratory study of fundamental chemical principles.

**CHE 310  
LITERATURE OF CHEMISTRY**  
 1, 1/0; F 99, 00  
*Prerequisite:* CHE 201 or concurrent registration. Sources of chemical literature. Experiences in chemical information searching and retrieval, including examples of computer searching.

**CHE 312  
CHEMISTRY AND CRIMINALISTICS**  
 3, 3/0; Sp 00, 01  
*Prerequisite:* CHE 201, CHE 321, or CHE 102; or CHE 100 with consent of instructor. The use of chemistry as an investigative aid in the process of criminal justice. General chemical techniques used in criminal investigations. The function of the criminalist considered from the gathering of evidence to the final presentation of expert testimony.

**CHE 315  
ENVIRONMENTAL CHEMISTRY**  
 3, 3/0; F 99, 00 G  
*Prerequisite:* CHE 112 or CHE 102 with consent of instructor. Discussion of chemical reactions occurring in air, water, and soil. Effect of human activities on the chemical environment. Pollution control methods and devices.

**CHE 321  
PRINCIPLES OF ORGANIC CHEMISTRY**  
 4, 3/3; F 99, 00  
*Prerequisite:* CHE 102 or CHE 112. A survey of organic chemistry including a treatment of the variety of functional groups and their chemical behavior.  
*Not open to chemistry or forensic chemistry majors.*

**CHE 322  
BIOLOGICAL CHEMISTRY**  
 4, 3/3; Sp 00, 01  
*Prerequisite:* CHE 321 or CHE 202. Discussion of structure and functions of the substances of biochemical interest found in living systems supplemented by illustrative laboratory work.  
*Not open to chemistry majors.*

**CHE 331  
PRINCIPLES OF PHYSICAL CHEMISTRY**  
 3, 3/0; F 99, 00  
*Prerequisite:* CHE 202, PHY 108, MAT 126, or consent of instructor. General treatment of the principles of physical chemistry oriented toward the needs

of students in the environmental, health related sciences, and forensic chemistry majors.  
*Required for forensic chemistry majors, and All College Elective.*

**CHE 399  
INTERNSHIP IN CHEMISTRY**  
 Up to 6, 1999-01  
*Prerequisite:* Approval of the Co-op Committee must be secured prior to registration. Hands-on experience on approved research and/or development project of current interest to local chemical industry. The student will be a full-time employee of the industry drawing full pay for the designated period.

**CHE 403  
INSTRUMENTAL ANALYSIS**  
 4, 2/6; F 99, 00  
*Prerequisite:* CHE 301 and CHE 305 or CHE 331. Chemical analysis and structure determination through study of the theory and operation of instruments involving visible, ultraviolet, infrared, and atomic absorption spectrophotometry; emission spectroscopy, colorimetry; flame photometry; chromatography; nuclear magnetic resonance spectroscopy.

**CHE 412  
INTERNSHIP IN CRIMINALISTICS**  
 3, 0/3; 1999-01  
*Prerequisite:* CHE 403, consent of instructor, and senior standing. Field experience in a forensic laboratory involving routine and research work in forensic chemistry. Students should be aware that police laboratories sometimes require background checks and/or drug screens prior to placement. While these are not required by the college, they can affect student ability to complete the program.  
*Required for all forensic chemistry majors.*

**CHE 430  
ORGANIC CHEMISTRY III**  
 3, 3/0  
*Prerequisite:* CHE 305. A study of advanced topics in theoretical and physical organic chemistry with emphasis on reaction types, mechanisms, and structure.

**CHE 460  
INORGANIC CHEMISTRY**  
 3, 3/0; Sp 00, 01  
*Prerequisite:* CHE 305 or CHE 331. An introduction to modern inorganic chemistry with special emphasis on periodic variations of structural and bonding patterns among inorganic compounds of the main group and transition elements. The kinetic and thermodynamic factors which govern the preparation and stabilities of inorganic compounds.

**CHE 461  
INORGANIC CHEMISTRY  
LABORATORY**  
 2, 0/6; Sp 00, 01  
*Prerequisite:* CHE 301 and CHE 460, or concurrent registration in CHE 460. Laboratory experience in the synthesis and characterization of selected inorganic compounds using a variety of techniques.

**CHE 470  
BIOCHEMISTRY I**  
 3, 3/0; F 99, 00  
*Prerequisite:* CHE 305 or consent of instructor, and CHE 202. Study of the structure, function, and metabolism of compounds found in living systems. Relationship of enzyme activity to cellular control. The chemistry of genetic information, storage and expression. This course is required of B.A. majors and it is recommended that the student have a general knowledge of biology which can be acquired by taking BIO 214.

**CHE 471  
BIOCHEMICAL TECHNIQUES**  
 1, 0/3; F 99, 00  
*Prerequisite:* CHE 202, CHE 301, and CHE 470, or concurrent registration in CHE 470. Introduction to techniques in the modern biochemistry laboratory. Participation in laboratory experiments illustrating these techniques and general biochemical principles.

**CHE 495  
PROJECT**  
*Prerequisite:* Approval of faculty project adviser must be secured prior to registration.

**CHE 499  
INDEPENDENT STUDY**  
*Prerequisite:* Approval of faculty project adviser must be secured prior to registration.

## CLASSICS

See Foreign Language

## COMMUNICATION

**Communication Department**  
**Janet E. Ramsey, Chair**  
 Bishop Hall 210

**COM 100  
INTRODUCTION TO  
MASS COMMUNICATION**  
 3, 3/0; 1999-01 CH  
 Historical development, present patterns, potentialities of the media in a climate of freedom and responsibility.

Standards of critical analysis, aesthetic discrimination, and intelligent selection in using media.

**COM 103  
INTRODUCTION TO HUMAN  
COMMUNICATION**  
 3, 3/0; 1999-01 CH  
 An investigation of the cultural basis of human communication. Emphasis on rhetorical forms available for the achievement and implementation of social power. Focus on the scientific study of communication, especially theory, constructs, abstractions, and logic.

**COM 205  
INTRODUCTION TO  
ORAL COMMUNICATION**  
 3, 3/0; 1999-01 CH  
 The basis of oral communication, designed to examine the principles and contexts of communication, with special focus on the communication process, interviewing, group problem solving, public speaking, and criticism of public messages.

**COM 210  
INTRODUCTION TO  
WRITING FOR THE MEDIA**  
 3, 2/2; 1999-01  
 Discussions and laboratory practice in organizing and writing for print and electronic media. Provides an introduction to news, feature and advocacy writing, with applications to the fields of journalism, public relations, and advertising.

**COM 215  
INTRODUCTION TO VISUAL  
COMMUNICATION**  
 3, 3/0; 1999-01  
 Analysis of how visual information is produced and consumed through an exploration of the role of images and design in the communication process.

**COM 301  
PUBLIC RELATIONS/ADVERTISING**  
 3, 2/2; 1999-01  
*Prerequisite:* COM 210. Study of the principles of public relations and advertising through fact finding, planning, communication, and evaluation, with an examination of theories, uses, and responsibility of public relations and advertising in contemporary society.

**COM 303  
WRITING FOR NEWS  
PUBLICATIONS**  
 3, 3/0; 1999-01  
*Prerequisite:* COM 210. Offers discussion and extensive laboratory practice in advanced newswriting techniques, to include working under extreme deadline pressure.

**COM 304  
BROADCAST COPYWRITING**  
 3, 3/0; 1999-01  
*Prerequisite:* COM 210. Includes discussions and laboratory practice organizing and writing copy for various electronic media, including commercials, promotional announcements, corporate video and narrative scripts.

**COM 305  
NEWS REPORTING**  
 3, 2/2; 1999-01  
*Prerequisite:* COM 303. Discussion of principles and practice in the news gathering and writing process, with emphasis on news recognition, interviewing and reporting, news beats, sources, research, accuracy, and comprehensive reporting through work with the Bengal News Service.

**COM 306  
PUBLIC SPEAKING**  
 3, 3/0; 1999-01  
*Prerequisite:* COM 205. Organization, delivery, and evaluation of public speeches in a variety of speaking situations.

**COM 307  
COMMUNICATION  
AND GROUP PROCESSES**  
 3, 3/0; 1999-01  
*Prerequisite:* COM 205. An interdisciplinary approach to discussion which examines the theoretical and practical dimensions of communication in small group decision making and problem solving communication.

**COM 308  
PUBLIC RELATIONS WRITING**  
 3, 2/2; 1999-01  
*Prerequisite:* COM 210. A survey of all aspects of public relations writing and editing with practice in applying the techniques discussed.

**COM 309  
PERSUASION**  
 3, 3/0; Sp 00, 01  
*Prerequisite:* COM 205. An examination of the theory and practice of persuasion from a variety of contexts such as the media, public communication, advertising, and interpersonal communication. Through class lectures, discussions, and presentations, students will gain understanding of how to be persuasive communicators.

**COM 310  
INTERNATIONAL COMMUNICATION**  
 3, 3/0; 1999-01 G  
*Prerequisite:* Junior or senior standing. Analyzes the role of international communication in today's global society by a comparative study of the world's press and broadcasting systems. Topics include journalistic values of other countries, differing philosophies of broadcasting, and the process of international communi-

cation within the framework of North-South, social, economic, and political divisions of the late 20th century.

**COM 317  
BROADCAST PROGRAMMING AND  
MANAGEMENT**  
 3, 3/0; 1999-01  
 This course is an examination of the strategy of broadcast programming and its relationship to broadcast sales and management. The course analyzes radio, television, and cable programming and their dependence on sales and management perspectives at a station.

**COM 319  
NEWS EDITING**  
 3, 2/2; 1999-01  
*Prerequisite:* COM 210 and COM 303. Fundamentals of copy editing, headline writing, and newspaper layout and make-up. Practice in the relevant skills needed in the electronic newsroom.

**COM 321  
RHETORICAL CRITICISM**  
 3, 3/0; 1999-01 CH  
*Prerequisite:* Junior or senior standing or consent of instructor. Instruction in the analysis of persuasive messages, designed to teach students to recognize and respond analytically to strategies used by public persuaders to influence them. Focus on political speeches, commercial advertising, protest music, and a variety of other forms of purposeful communication.

**COM 322  
COMMUNICATION GRAPHICS  
AND DESKTOP PUBLISHING**  
 3, 2/2; 1999-01  
*Prerequisite:* COM 215. This course is primarily for advanced students in communication graphics and stresses the application of effective, targeted visual communication to publications using desktop publishing.

**COM 324  
TECHNICAL PRODUCTION FOR  
TELEVISION AND RADIO**  
 3, 3/0; Sp 00, 01  
 An in-depth understanding of digital and analog technologies used in television and radio production. Covers media computer systems, television systems, and sound design.

**COM 325  
FEATURE AND MAGAZINE  
ARTICLE WRITING**  
 3, 3/0; 1999-01  
*Prerequisite:* COM 210. Analysis and writing of magazine articles and newspaper features, including freelancing procedures.



**COM 327**  
**GREAT WRITING AND REPORTING OF AMERICAN JOURNALISM**  
3, 3/0; Sp 00, 01 CH  
*Prerequisite:* Junior or senior standing. This course explores excellence in reporting and writing and analyzes the reasons why some journalistic writings are considered great and worthy of enduring fame.

**COM 328**  
**RADIO STUDIO OPERATIONS**  
3, 3/0; 1999-01  
*Prerequisite:* Communication majors. An introduction to the fundamentals of radio, broadcasting, and radio production techniques, designed to provide a laboratory experience in the principles and techniques of the radio station.

**COM 329**  
**BEGINNING TELEVISION PRODUCTION**  
3, 2/3; 1999-01  
*Prerequisite:* COM 215. An introduction to the theory, aesthetics, and fundamentals of television production through lecture and in-studio production projects.

**COM 333**  
**MINORITY VOICES AND THE MEDIA**  
3, 3/0; 1999-01 D  
*Prerequisite:* Junior or senior standing or consent of instructor. A critical exploration of representation in the media, focusing on women, African-Americans, gays and lesbians, and other traditionally underrepresented groups.

**COM 336**  
**COMMUNICATION AND WEB PUBLISHING**  
3, 2/2; 1999-01  
A general introduction to the role of the World Wide Web in mass communication fields, including beginning and advanced training in Web page design, Web strategies and an introduction to related software.

**COM 337**  
**BROADCAST NEWS**  
3, 2/2; F 99, 00  
The theory, forms, and techniques of writing and presenting news for radio and television, with practical experience in the classroom and the studio.

**COM 338**  
**BROADCAST FIELD REPORTING**  
3, 2/2; Sp 00, 01  
*Prerequisite:* COM 210. Discussion and practice in television field reporting, and the news writing techniques utilized in reporting on location. Includes working under deadline pressure for writing, editing, and reporting packages.

**COM 390**  
**SPECIAL TOPICS: JOURNALISTIC WRITING**  
3, 2/2; 1999-01  
*Prerequisite:* COM 210. Specialized reporting includes extensive study, research, analysis, and journalistic writing on a special topic, such as sports, business, health, technical, or environmental reporting.

**COM 400**  
**COMMUNICATION LAW**  
3, 3/0; 1999-01  
Study of freedom of speech and press in the United States, particularly the rights and responsibilities of the media and constraints placed on them under law: libel, privacy, journalistic privilege, free press/fair trial, obscenity, advertising law.

**COM 401**  
**COMMUNICATION THEORY AND RESEARCH**  
3, 3/0; F 00  
*Prerequisite:* Junior or senior standing. A study of communication theory, research, and philosophy. Emphasis is upon applications of communication theory to the message design and source-receiver identification.

**COM 407**  
**ORGANIZATIONAL COMMUNICATION**  
3, 3/0; Sp 01  
The structure, behavior, and message strategies in an organization, including practice in creating and exchanging effective verbal and nonverbal communication in an organization.

**COM 408**  
**PUBLIC RELATIONS CASE STUDIES**  
3, 3/0; F 00  
*Prerequisite:* COM 301, COM 308. A course for advanced students in public communication, stressing the application of communication principles, techniques, and programs to real-life organization problems and opportunities.

**COM 410**  
**MASS COMMUNICATION HISTORY**  
3, 3/0; F 99  
*Prerequisite:* Junior or senior standing. Historical survey of the technology and social evolution of journalism and the broadcasting industries, including an analysis of their roles in American society.

**COM 415**  
**COMPUTER ASSISTED REPORTING**  
3, 2/2; 1999-01  
*Prerequisite:* COM 303. Computer assisted research and reporting, including use of on-line sources, the Internet, and spreadsheets and database managers to analyze data.

**COM 418**  
**CAMPAIGNS IN PUBLIC RELATIONS AND ADVERTISING**  
3, 2/2; 1999-01  
*Prerequisite:* COM 308. Writing techniques for publicity and advertising. Practice in purposive communication including news releases, pamphlets, publicity campaigns, advertising copy and layout, type selection, media selection.

**COM 422**  
**MASS MEDIA CRITICISM**  
3, 3/0; F 99  
*Prerequisite:* Junior or senior standing. An introductory course in the analysis and criticism of such mass media artifacts as advertisements, newscasts, political messages, documentaries, situation comedies, soap operas, and religious programming, aimed at providing students with an understanding of the persuasive impact of such communication.

**COM 425**  
**MEDIA CRITICISM AND PRESIDENTIAL CAMPAIGNS**  
3, 3/0; F 00  
A critical examination of the role of mass media in American presidential campaigns.

**COM 428**  
**ADVANCED RADIO PRODUCTION**  
3, 3/0; 1999-01  
*Prerequisite:* COM 328, majors only. An advanced course in all aspects of audio production with particular emphasis on commercial radio production, including projects in programming, production, and promotion.

**COM 429**  
**ADVANCED TELEVISION PRODUCTION**  
3, 2/2; 1999-01  
*Prerequisite:* COM 330 and consent of instructor. A practical program with emphasis on individual training in specialized television production techniques.

**COM 439**  
**TELEVISION DIRECTING AND PRODUCING**  
3, 2/2; 1999-01  
*Perquisite:* COM 329 and consent of instructor. This course will teach advanced television directing and producing. Using the television facilities on campus, students will produce and direct their own television programs. Field trips to local professional television centers will also be offered as part of the course.

**COM 440**  
**ELECTRONIC NEWS GATHERING**  
3, 2/2; 1999-01  
*Prerequisite:* COM 329. Provides a perspective of electronic news gathering based upon its history and ethics. Teaches the techniques of shooting

and editing videotaped news stories. Using portable equipment, students will shoot stories for news and feature programs.

**COM 450**  
**COMMUNICATION AND SOCIETY**  
3, 3/0; 1999-01  
An exploration of the role of communication in society and the resulting ethical responsibilities of communication professionals.  
*Required for all majors after completion of 90 credits.*

**COM 488**  
**INTERNSHIP**  
1-3; 1999-01  
*Prerequisite:* Junior or senior standing and consent of instructor. Supervised field experience in a professional setting for students who have completed extensive academic preparation in the discipline. Fifty hours of field work in journalism, broadcasting, or public relations-advertising per credit.

**COM 495**  
**PROJECT**

**COM 499**  
**INDEPENDENT STUDY**

## COMPUTER INFORMATION SYSTEMS

**Computer Information Systems Department**  
*Lawrence W. Scott, Chair*  
Chase Hall 201

**CIS 101**  
**COMPUTER FUNDAMENTALS**  
3, 3/0; 1999-01 CT  
A study of the characteristics, organization, and use of the computer. The function of the basic portions of the computer will be identified and explained. Minor emphasis is placed on computer programming fundamentals with hands-on experience. A broad survey of applications, of word processing, spreadsheets, and databases, as well as their impact on society, will be discussed.  
*Course does not apply toward the fulfillment of CIS elective requirements for CIS majors.*

**CIS 111**  
**INTRODUCTION TO PROGRAMMING**  
3, 3/0 CT  
Description of computers; concepts of languages and programming. Computer language programming including a study of basic properties of

computer languages such as branching, looping, table handling, subprograms and their application to the solution of a variety of problems. Enhancement of programming skills through actual use of the computer.  
*Cannot be taken by CIS majors.*

**CIS 151**  
**COMPUTER-BASED INFORMATION PROCESSING I**  
3, 3/0; 1999-01  
*Prerequisite:* CIS 101 or equivalent. Description of computers; concepts of languages and programming; study of basic properties of computer languages such as branching, looping, table handling, subprograms, and their application to the solution of a wide variety of problems. Emphasis on structured language with enhancement of programming skills through actual use of the computer.  
*Required for majors. Prospective CIS majors must earn at least a "C" in this course.*

**CIS 251**  
**COMPUTER BASED INFORMATION PROCESSING II**  
3, 3/0; 1999-01  
*Prerequisite:* CIS 151 or equivalent. Continuation of CIS 151. Description of computer units, data, memory, files and how data is processed.  
*Required for majors.*

**CIS 311**  
**COMPUTER MODELS FOR DECISION MAKING**  
3, 3/0; offered based on staff availability  
*Prerequisite:* CIS 370 or consent of instructor. Introduction to concepts of management science and techniques of operations research. The development of and use of paradigms in the process of decision making. Use pre-written computer programs to solve problems in management science. Computer laboratory work is required.

**CIS 315**  
**COMPUTER ORGANIZATION**  
3, 3/0; Sp 00, 01  
*Prerequisite:* CIS 151. Description of the hardware aspects of computer systems. Familiarize the student with hardware design and structural organization of a computer system.  
*Required for majors.*

**CIS 351**  
**STRUCTURED PROGRAMMING**  
3, 3/0; F 99, 00  
*Prerequisite:* CIS 251. Introduces the student to additional structured techniques or structured programming languages. Programs, assignments, and examples will extend the student's knowledge of data structures and file structures as well as illustrate language features.

**CIS 351**  
**STRUCTURED PROGRAMMING**  
3, 3/0; F 99, 00  
*Prerequisite:* CIS 251. Introduces the student to additional structured techniques or structured programming languages. Programs, assignments, and examples will extend the student's knowledge of data structures and file structures as well as illustrate language features.

**CIS 361**  
**C PROGRAMMING I**  
3, 3/0; F 99, 00  
*Prerequisite:* CIS 251. The C programming language will be covered in depth. Several programs will be assigned as laboratory exercises to develop the student's skills in the language. This course is required for all CIS majors who have not already taken a course in C or C++.

**CIS 370**  
**SYSTEMS ANALYSIS AND DESIGN**  
3, 3/0; Sp 00, 01  
*Prerequisite:* CIS 151. To introduce the student to information analysis and system design. Topics include: the systems concepts, defining a system, system analysis, hardware elements, software elements, case studies.  
*Required for majors.*

**CIS 380**  
**MICROCOMPUTER APPLICATIONS**  
3, 3/0; Sp 00, 01  
*Prerequisite:* CIS 370. Description of the microcomputer hardware and operating systems. Students will work with several current software packages used for business applications.  
*Required for majors.*

**CIS 400**  
**VISUAL BASIC PROGRAMMING FOR THE WINDOWS ENVIRONMENT**  
3, 3/0  
*Prerequisite:* CIS 251. In contrast to conventional sequential programming, Visual Basic will be used to write Windows-based object-oriented event-driven programs. Hardware and software necessary for multimedia productions will be discussed, and Visual Basic programs will be written utilizing these. This course is a CIS restricted elective.

**CIS 405**  
**COMPREHENSIVE COBOL PROGRAMMING**  
3, 3/0; F 99, 00  
*Prerequisite:* CIS 251. An intensive study of the COBOL language and its uses for commercial applications. Emphasis on COBOL fundamentals and advanced features, program design and style, and file handling. Programming projects will involve commercially-oriented applications programs.  
*Required for majors.*

**CIS 410**  
**COMPUTER OPERATING SYSTEMS**  
3, 3/0; Sp 00, 01  
*Prerequisite:* CIS 315. A study of computer operating systems, their functions and components. Scheduling and execution of jobs, task management and interrupts. Case studies of currently used operating systems.  
*Required for majors.*

**CIS 411**  
**DATABASE SYSTEMS**  
3, 3/0; F 99, 00  
*Prerequisite:* CIS 370. A study of the basic concepts and uses of database systems. Topics include organization, analysis, and function of database systems. Components of representative CODASYL, Hierarchic, and relational databases will be presented.  
*Required for majors.*

**CIS 420**  
**DATABASE MANAGEMENT SYSTEMS**  
3, 3/0; Sp 00, 01  
*Prerequisite:* CIS 411. Advanced concepts of database management including data modeling, features and uses of database management systems, data and database administration, and data dictionary.

**CIS 425**  
**OBJECT ORIENTED DEVELOPMENT**  
3, 3/0  
*Prerequisites:* CIS 251 and CIS 370. The object-oriented approach to programming and design will be covered, along with its history and rationale. Hands-on programming experience using an appropriate object-oriented programming language will be provided. This course is a CIS restricted elective.

**CIS 430**  
**APPLIED COBOL**  
3, 3/0  
*Prerequisite:* CIS 405. The use of COBOL in a variety of environments including batch, interactive, and with database management systems. Emphasis on file handling and design. Programming projects.

**CIS 435**  
**COMPUTER SEMINAR**  
3, 3/0; offered based on staff availability  
*Prerequisite:* Consent of instructor. Topics will be selected from subjects not covered in formal courses.

**CIS 442**  
**ADVANCED SYSTEMS APPLICATIONS**  
3, 3/0; 1999-01  
*Prerequisite:* CIS 411. Information systems in complex organizations. Techniques of information systems analysis and design. Detailed study of a representative real-world information system. Case studies, group work, and oral presentations.  
*Required for majors.*

**CIS 470**  
**DATA COMMUNICATIONS**  
3, 3/0; F 99, 00  
*Prerequisite:* CIS 315. Survey of technical, regulatory, systems, and management aspects of computer data communications. Theory of communi-

cations, concepts of hardware implementing that theory, and protocols and conventions essential to efficient operation will be covered in detail. In addition LAN's packet switching networks and other forms of organization will be treated along with communication integrity and regulatory issues central to data communications systems planning and implementation.  
*Required for majors.*

**CIS 488**  
**INTERNSHIP**  
3, 3/0; 1999-01  
*Prerequisite:* CIS 370, junior or senior standing, and consent of instructor. Qualified students will be placed in functioning organizations to work as trainees, on special projects, studies, or in any relevant aspect of information systems.

**CIS 495**  
**PROJECT**  
Offered based on staff availability

**CIS 499**  
**INDEPENDENT STUDY**  
Offered based on staff availability

## CREATIVE STUDIES

**Center for Studies in Creativity**  
*Gerard J. Puccio, Chair*  
Chase Hall 244

**CRS 205**  
**INTRODUCTION TO CREATIVE STUDIES**  
3, 3/0  
The purpose of this course is to increase the degree to which students recognize and nurture their creative potential. The course focuses on four aspects of creativity: the creative person, the creative process, the creative product, and the creative environment. It further emphasizes the interactive nature of these elements and provides for individual application in personal and professional settings.

**CRS 302**  
**CREATIVE APPROACHES TO PROBLEM SOLVING**  
3, 3/0  
*Prerequisite:* CRS 205 and ENG 101-ENG 102. This course will allow students to develop skill in using a broad array of creative problem-solving methods and techniques. The emphasis of this course is on the application of these technologies to challenges, goals, and opportunities students face in their personal and professional lives.



**CRS 303**  
**CREATIVE LEADERSHIP**  
**THROUGH EFFECTIVE**  
**FACILITATION**  
3, 3/0

This course will provide students with exposure to and practice in leadership and facilitation concepts as they relate to creative problem-solving groups. Students will examine their leadership style and study specific methods and techniques to help in working with groups. Students will apply these concepts and skills to their own leadership roles.

**CRS 304**  
**DEVELOPING CREATIVE PROBLEM-**  
**SOLVING FACILITATION SKILLS**  
3, 3/0

*Prerequisite:* CRS 205 and CRS 302. This course is designed to develop and apply facilitation and leadership skills in a variety of settings. Students will participate in supervised practice using creative problem-solving techniques with groups and individuals.

**CRS 305**  
**SEMINAR/METAPHORIC PROBLEM**  
**SOLVING**  
1, 1/0

*Prerequisite:* CRS 205, CRS 302, and consent of instructor. Selected topics of current interest related to theories, methods, and models of metaphorical problem solving with a particular emphasis on synectics.

**CRS 306**  
**SEMINAR/CRITICAL/ANALYTICAL**  
**PROBLEM SOLVING**  
1, 1/0

*Prerequisite:* CRS 205, CRS 302, and consent of instructor. Selected topics of current interest related to methods, techniques, and models of problem solving with particular emphasis on creative analysis and Kepner-Tregoe approaches.

**CRS 320**  
**APPLICATIONS OF CREATIVITY**  
**AND INNOVATION**  
3, 3/0

*Prerequisite:* CRS 205. This course is designed to provide students with a general awareness of how creative persons apply creative processes within a creative environment to produce novel and useful products. It explores the nature of creative persons and those factors that encourage or inhibit creative outcomes. A general awareness of research in the field is examined to provide personal experience about the application of creativity in the arts, science, education, and business. Students will develop their personal creative ability through class activities, readings, and interaction.

## CRIMINAL JUSTICE

**Criminal Justice Department**  
*Charles E. Reasons, Chair*  
Classroom Building C114

**CRJ 101**  
**INTRODUCTION TO**  
**CRIMINAL JUSTICE**  
3, 3/0; 1999-01 CT

This course examines the structure, function, practices, policies, and objectives of the criminal justice system. The course will emphasize three themes underlying all stages of the criminal justice system: resource scarcity, discretionary powers, and interdependence or exchange relationships among criminal justice agencies.

**CRJ 201**  
**CRIMINAL LAW AND PROCEDURES**  
3, 3/0; F 99, 00 CT

*Prerequisite:* CRJ 101. This course is designed to offer the student a clear understanding of the substantive and procedural processes used by the criminal justice system. Various laws and procedures which are applied by law enforcement, prosecutors, attorneys, and the judiciary are presented and discussed in an effort to provide the student with an overall understanding of the criminal law and its procedures.

**CRJ 202**  
**THE POLICE PROCESS**  
3, 3/0; 1999-01

This course provides a comprehensive introduction to the basic elements of policing in the United States. It is designed to acquaint the student with the most current knowledge about police organizations, police officers, police work, and the more critical police problems.

**CRJ 203**  
**CRIME, IDEOLOGY AND THE**  
**ADMINISTRATION OF JUSTICE**  
3, 3/0; 1999-01

*Prerequisite:* CRJ 101. This course examines the social, political, cultural and economic forces that shape the historical and contemporary ideologies of crime. It also examines the influences different ideologies of crime have upon the policies and practices of the criminal justice system.

**CRJ 204**  
**THE CORRECTIONAL PROCESS**  
3, 3/0; 1999-01

This course surveys the correctional process from sentencing to parole, examining the various legal and administrative processes used in establishing post-conviction remedies, criminal

sanctions, and social controls on adult offenders. An emphasis will be given to understanding the structure and function of American correctional system, and the various processes in establishing correctional custody and treatment.

**CRJ 301**  
**POLICE ORGANIZATION**  
**AND MANAGEMENT**  
3, 3/0; 1999-01

*Prerequisite:* CRJ 101 or consent of instructor, and junior standing. An analysis of organizational characteristics and operating strategies of modern police agencies. Special emphasis on administrative and supervisory issues, operations theory and practice.

**CRJ 302**  
**CRIMINAL JUSTICE AND THE**  
**COMMUNITY**  
3, 3/0; 1999-01 CT

An examination of patterns of crime in the community and of the community's response; differences between urban and suburban areas, as well as by age, gender, and race; inquiry into practices and effects of diversion, community-based corrections, victim-witness programs, crime watch, court watch, restitution, mediation, and dispute resolution programs.

**CRJ 305**  
**THE JUVENILE JUSTICE SYSTEM**  
3, 3/0; 1999-01

*Prerequisite:* CRJ 101 and SOC 390, and junior standing. An overview of the structure and function of the juvenile justice system, the various statutes and court decision used to determine jurisdiction over youth, an examination of the critical decision-making stages of the juvenile court process, and a review of the research concerning the relative effectiveness of treatment and social control programs for youth. An emphasis will be placed on the historical, cultural, social, and legal influences governing the process, priorities, and practices of juvenile justice.

**CRJ 306**  
**PROBATION, PAROLE AND**  
**COMMUNITY CORRECTIONS**  
3, 3/0; 1999-01

*Prerequisite:* CRJ 101 and junior standing. A review of probation, parole, and community corrections; their histories and organizational structures, the nature and the effects of the process by which offenders are handled, as well as the dynamics and trends toward change in the field of probation, parole, and community-based corrections.

**CRJ 307**  
**COMPARATIVE CRIMINAL JUSTICE**  
**SYSTEMS**  
3, 3/0; 1999-01 G

*Prerequisite:* CRJ 101. This course examines the major contemporary criminal justice systems of other nations and their operations under various cultural contexts. Efforts will focus on the social, economic, political, and ideological forces which have impacted the various systems as they are today. Methodological issues of comparative research will also be included in the discussion.

**CRJ 308**  
**CRIME PREVENTION**  
3, 3/0

An examination of the nature and effects of three levels of efforts at crime prevention: those administered by the formal justice system to prevent offenders from repeating offenses, those designed to deal with persons identified as likely to produce crime, and those designed to modify the physical and social environments that foster crime.

**CRJ 315**  
**RESEARCH METHODS IN**  
**CRIMINAL JUSTICE**  
3, 3/0; 1999-01

*Prerequisite:* CRJ 101 and approved statistics course (e.g., ECO 305, PSY 306, MAT 311 or equivalent) and junior standing. Introduction to the elements of the research process as it is practiced in criminal justice: definition of problem, delineating theory, various methods of data collection, examination of validity and reliability. Use of research devices in everyday criminal justice is discussed, and students participate in some aspects of research.

**CRJ 317**  
**CONSTITUTIONAL ISSUES IN**  
**CRIMINAL JUSTICE**  
3, 3/0; Sp 00

*Prerequisite:* CRJ 101 and at least junior standing. This course examines constitutional issues in criminal justice through a review of the United States Supreme Court decisions regarding law enforcement, prosecution, defense, judicial process, corrections, and community supervision. Students also discuss a variety of other constitutional issues related to the administration of justice, i.e. the criminality of certain behaviors, roles of criminal justice personnel, etc.

**CRJ 320**  
**CRIMINAL COURTS**  
3, 3/0

Examine and explore the trial criminal courts with a focus on courts for adult offenders. An analysis of the legal, social, and political processes which affect the dynamics of the criminal trial process and discussion of the

problems, possible reforms, and decision making of the participants. Examination of the interrelationships which affect and influence court decisions and justice.

**CRJ 402**  
**ADVANCED ADMINISTRATION IN**  
**CRIMINAL JUSTICE**  
3, 3/0; 1999-01

*Prerequisite:* CRJ 101, junior standing, and completion of introductory course in public administration, business management, or criminal justice administration. This is an advanced course in management concepts and issues applicable to the administration of criminal justice agencies. Emphasis will be placed on a systems model of organizational analysis. Areas such as the external environment of crime control policy and its impact upon agency operations, internal agency management, and the responsibilities and functions of crime control agency managers will be examined.

**CRJ 406**  
**CORRECTIONAL INSTITUTIONS**  
**AND PROGRAMS**  
3, 3/0; 1999-01

*Prerequisites:* CRJ 101, CRJ 204, junior standing, or consent of instructor. This course provides a comprehensive survey of adult institutional corrections systems, their programs and services, and the policies and procedures governing the operational, legal, and structural context of correctional environments. An emphasis will be given to the analysis of organizational and social dynamics which affect the relative success or failure of various correctional interventions and programs.

**CRJ 408**  
**PROSEMINAR IN**  
**CRIMINAL JUSTICE**  
3, 3/0; 1999-01

Investigation, examination, and discussion of topics of current interest in criminal justice, techniques and analysis of criminal justice research.

**CRJ 409**  
**ADVANCED ISSUES IN LAW**  
**ENFORCEMENT**  
3, 3/0; 1999-01

*Prerequisite:* CRJ 101, CRJ 202, junior standing, or consent of instructor. This is an advanced course looking at contemporary issues in law enforcement. It is designed to provide insight and depth into a broad range of topics and to expose the student to a variety of experts and specialists from various disciplines as they relate to these topics.

**CRJ 420**  
**ADVANCED ISSUES IN**  
**PUNISHMENT AND CORRECTIONS**  
3, 3/0; 1999-01

*Prerequisite:* CRJ 101, CRJ 204 or CRJ 406 and SOC 383; junior standing. This course provides a critical analysis of contemporary policies, practices, and issues arising from the control and punishment of criminal offenders. Special attention will be given to understanding the complexity of recent issues such as those related to disparity in criminal sentencing, the use of the death penalty, institutional overcrowding, the treatment of institutionalized persons, and the community supervision of non-incarcerated offenders. The focus of analysis will vary according to the interest of faculty and students.

**CRJ 425**  
**RACE AND THE**  
**ADMINISTRATION OF JUSTICE**  
3, 3/0 D

*Prerequisite:* CRJ 101. Students will study and assess the current state of race relations in society and the criminal justice system through an examination of the historical experiences of different racial and ethnic groups in the United States, including the use of law and the criminal justice system as a means of social subordination. Such subordination affects the criminality of minority groups, as does the informal aspects of criminal justice such as power, discretion, and authority.

**CRJ 430**  
**GENDER AND THE**  
**ADMINISTRATION OF JUSTICE**  
3, 3/0 D

*Prerequisite:* CRJ 101. Students will study the historical subordination of women and its contemporary manifestations in the law and criminal justice system. The victimization of women and their criminal behavior will be analyzed in light of definitions of gender and sex roles. Criminal justice policies and practices which result in differential treatment of female victims, offenders, and practitioners will be studied.

**CRJ 470**  
**ADVANCED SEMINAR IN**  
**CRIMINAL JUSTICE**  
3, 3/0; Sp 00, 01

*Prerequisite:* Completion of 24 credits of criminal justice coursework, senior standing. This seminar provides for the analysis, evaluation, and summation of criminal justice issues, concepts, theories, research findings, and knowledge acquired by students during their total learning experience within the criminal justice program at Buffalo State College and other colleges.

**CRJ 495**  
**PROJECT**  
  
**CRJ 499**  
**INDEPENDENT STUDY**

## DANCE

**Performing Arts Department**  
*Donna E. McCarthy, Chair*  
Rockwell Hall 203

The 21-credit dance minor includes DAN 200, DAN 220, DAN 224, DAN 302, DAN 303, DAN 312, and DAN 330.

**DAN 200**  
**BEGINNING MODERN**  
**TECHNIQUE I**  
3, 1/4; 1999-01 CA

Technical dance instruction, exploration of movement in relation to time, space, energy, and principles of alignment. Modern dance history.

**DAN 201**  
**TEACHING CREATIVE**  
**MOVEMENT FOR CHILDREN**  
3, 1/4; offered based on staff availability

Preparation to teach creative movement to children, K through 6th grade. Emphasis will be placed on studio work on how to direct non-competitive creative play, cooperative group problem solving, and structured improvisations.

**DAN 220**  
**BEGINNING BALLET**  
3, 1/4; 1999-01 CA

An intensive introduction to ballet through technical instruction, anatomical and aesthetic foundation, ballet history, and vocabulary.

**DAN 224**  
**DANCE APPRECIATION**  
3, 3/0; 1999-01 CA

An elementary course in the history and philosophy of dance from ancient times until the present. Emphasis is placed on the development of ballet and modern dance. Evaluation and criticism of dance are included.

**DAN 230**  
**SURVEY OF**  
**AFRICAN-AMERICAN DANCE**  
3, 1/4; 1999-01 D

Technique, practice, readings, and projects in dance and Black culture. Current practices of black dance in relation to Euro-American techniques.

**DAN 234**  
**HISTORY OF THE BLACK**  
**DANCE MOVEMENT**  
3, 3/0; offered based on staff availability D

A study of the development of African-American dance and the contributions of African-American dancers. Emphasis will be placed on how traditional African dance forms evolved into and influenced the contemporary dance vernacular.

**DAN 250**  
**JAZZ DANCE**  
3, 1/4; offered based on staff availability

*Prerequisite:* DAN 200 or DAN 220 or equivalent. Technique, studies, and compositional problems illustrating the diverse possibilities of jazz dance, with special attention to the ethnic foundation of this form.

**DAN 302**  
**MODERN DANCE TECHNIQUE II**  
3, 1/4; Sp 00, 01 CA

*Prerequisite:* DAN 200 or consent of instructor. Designed to develop and strengthen technical dance skills. Fundamental principles of movement in relation to dynamics, rhythm, and space; introduction to improvisation and modern dance history.

**DAN 303**  
**DANCE COMPOSITION**  
3, 1/4

*Prerequisite:* One semester of modern dance or equivalent and/or consent of instructor. Instruction in the techniques of composition; practical research in the craft of choreography through improvisation, creation of individual and group compositions.

**DAN 310**  
**DANCE FOR THE MUSIC THEATER**  
3, 1/4

*Prerequisite:* DAN 250. A continuation of DAN 250 emphasizing the technique and history of the diverse dance forms required in the music theater.

**DAN 312**  
**MODERN DANCE TECHNIQUE III**  
3, 1/4; Sp 00, 01

*Prerequisite:* DAN 302 or consent of instructor. A continuation of DAN 302. Emphasis will be placed on expanding and deepening the individual's technical range and quality of movement and expanding the individual's creative ability through improvisation and modern dance history.

**DAN 320**  
**REHEARSAL AND PRODUCTION**  
1, 0/6; 1999-01

*Repeatable.* Open to students by audition only. This course offers the student exposure to various dance performance experiences. The students will be given the opportunity



to participate in building a finished dance production, including audition, dance rehearsals, technical rehearsals, and performances.

**DAN 330  
BALLET II**  
3, 1/4; F 99, 00 CA  
*Prerequisite:* DAN 220 or consent of instructor. Comprehensive examination of the technique and historical background of ballet explored in depth through studio work and lecture. Emphasis placed upon strengthening the individual's technical range and understanding of basic concepts and vocabulary.

**DAN 340  
BALLET III**  
3, 1/4; F 99, 00  
*Prerequisite:* DAN 330 or consent of instructor. An intermediate level ballet technique course with special emphasis on applications of ideokinesis.

**DAN 350  
TAP DANCE FOR  
THE STAGE: ELEMENTARY**  
1, 0/2; offered based on staff availability  
*Prerequisite:* DAN 200 or DAN 220, or consent of instructor. The first course in a two-semester sequence for majors and minors in the performing arts with at least two weekly hours of outside practice plus familiarity with selected readings. The student will be able to comprehend and execute an elementary vocabulary of stage tap.

**DAN 401  
TEACHING DANCE**  
3, 3/0  
*Prerequisite:* DAN 302 and consent of instructor. A comprehensive survey of the methods and materials used in teaching dance to students of various ages and backgrounds, explored through research and practical experience. Anatomical and kinesiological principles, injury prevention and treatment for dancers.

**DAN 402  
ADVANCED MODERN  
TECHNIQUE IV**  
3, 0/6  
*Prerequisite:* DAN 312 or consent of instructor. First semester course of a two-semester sequence for students already at the intermediate or advanced levels of modern dance. Opportunities to study with Buffalo State College and guest instructors in various techniques chosen from Limon, Cunningham, Graham, jazz, ballet, and other contemporary approaches.

**DAN 403  
ADVANCED  
PERFORMANCE STUDIES**  
3, 0/6  
*Prerequisite:* DAN 302 or consent of instructor. This course will provide advanced students an opportunity for in-depth study of performance techniques not generally presented in technique courses. Students will learn choreography/repertory and develop the ability to dance in ensemble as well as perform solo roles. Students will experience a professional choreographic and/or studio atmosphere under the coaching and direction of the instructor.

**DAN 412  
ADVANCED MODERN  
TECHNIQUE V**  
3, 0/6  
*Prerequisite:* DAN 402 or consent of instructor. A continuation of DAN 402.

**DAN 450  
TAP DANCE FOR  
THE STAGE: INTERMEDIATE**  
1, 0/2; offered based on staff availability  
*Prerequisite:* DAN 350 or consent of instructor. Advanced vocabulary, styles, and solo/duet work emphasized. Some creative work required. The student will be able to comprehend and execute a substantial portion of traditional Broadway requirements.

**DAN 495  
PROJECT**

**DAN 499  
INDEPENDENT STUDY**

## DESIGN

**Design Department**  
*Stephen F. Saracino, Chair*  
Upton Hall 212

All studio courses in design require at least one hour per week of outside work for each credit, in addition to the regular class meetings. Open studio times are scheduled for this purpose. Note: Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class.

**DES 101  
INTRODUCTORY DESIGN 2D I**  
3, 0/6; 1999-01 CA  
Development of basic skills and concepts in two-dimensional design; logical and intuitive approaches to pure form and natural sources; emphasis on development of individual solutions.

**DES 102  
INTRODUCTORY DESIGN 2D II**  
3, 0/6; 1999-01  
*Prerequisite:* DES 101. Continued development of material covered in DES 101, involving in-depth assignments stressing composition and form, idea development, design process, and color dynamics while strengthening skills and control.

**DES 103  
INTRODUCTORY DESIGN 3D I**  
3, 0/6; 1999-01 CA  
An exploration of the fundamentals of three-dimensional design, with emphasis on the development of skills related to spatial manipulation via form and structure. The development of manipulative skills in various media.

**DES 104  
INTRODUCTORY DESIGN 3D II**  
3, 0/6; 1999-01  
*Prerequisite:* DES 103. The investigation of advanced concepts and manipulation skills related to three-dimensional design. Students are involved in the process of conceptualization, visualization, and evaluation related to design objectives.

**DES 105  
MECHANICAL  
PERSPECTIVE DRAWING**  
3, 0/6; 1999-01  
Descriptive drawing, including orthographic, isometric, and perspective projection, as an aid in visualizing and planning the construction of three-dimensional art objects.

**DES 114  
WORKSHOP IN CRAFTS**  
3, 0/6; 1999-01 CA  
Creative experience in crafts, individual projects.  
*Non-art majors only.*

**DES 190  
DESIGN SYMPOSIUM**  
3, 3/0; 1999-01 CA  
A non-technical study for non-majors as it relates to varied design fields in our culture. Presentation of brief reviews of design as it functions in architecture, planning and environment, metal, wood, ceramic, textiles, advertising, and industrial design.  
*Non-art majors only.*

**DES 215  
INTRODUCTION  
TO DESIGN HISTORY**  
3, 3/0; 1999-01  
A general introduction to the field of design history and criticism, tracing the evolution of form and meaning from primitive cultures through the contemporary world. Special emphasis given to the Industrial Revolution and modern and post-modern culture.

**DES 220  
CERAMICS I**  
3, 0/6; 1999-01  
Exploration of clay as a medium of expression. Experiences in methods of forming; preparation and application of glaze; firing theory. Study of form and function.

**DES 230  
INTRODUCTION TO JEWELRY  
MAKING**  
3, 0/6; 1999-01  
*Prerequisite:* DES 101. Basic exploration of materials and processes in jewelry making, emphasizing creative design.

**DES 235  
DESIGN IN METAL**  
3, 0/6; offered based on staff availability  
Metalsmithing as a medium for expression and object design, utilizing the unique qualities of various metals and working techniques.

**DES 240  
DESIGN IN FIBERS—WEAVING**  
3, 0/6; 1999-01  
Exploration of traditional and experimental techniques in weaving and related fiber processes, including tapestry, twill pattern weaving, and selected problems in various off-loom techniques.

**DES 245  
DESIGN IN FIBERS—SURFACE  
DESIGN**  
3, 0/6; 1999-01  
Study and exploration of textile printing processes, with emphasis on such techniques as silkscreen, batik, and block printing on cloth; aesthetic and practical considerations in design of printed textile.

**DES 250  
WOOD DESIGN I**  
3, 0/6; 1999-01  
Wood as a medium for expression and object design; technical and aesthetic problems.

**DES 260  
INTRODUCTION  
TO INTERIOR DESIGN**  
3, 3/0; Sp 00, 01  
An introductory survey of the theory and practice of interior design. Emphasis is given to the impact of interior space upon the physical, social, psychological, and aesthetic needs of people. Field trips.

**DES 262  
AUTOCAD I FOR INTERIOR DESIGN**  
3, 0/6; S 00, 01  
*Prerequisite:* DES 105. Introduction to the AutoCad Computer Aided Drafting program using AutoCad commands, drafting methods, and interior design industry software.

**DES 270  
VISUAL COMMUNICATION I**  
3, 0/6; 1999-01  
*Prerequisite:* DES 101, DES 102, DES 103, DES 104, DES 105. Foundation course for graphic design. Technical knowledge for the preparation and production of art for visual communication.

**DES 271  
LETTERING AND TYPOGRAPHY I**  
3, 0/6; 1999-01  
*Prerequisite:* DES 270. The uses of typographic forms in graphic design. Problems in expression and appropriate application and layout; type specification, indication, copyfitting. Study of the origins of the Western alphabet.

**DES 307  
COLOR THEORY**  
3, 0/6; 1999-01  
*Prerequisite:* DES 101 and DES 103. The continued study of origins, meaning, and dimensions of color. Theoretical two-dimensional and multi-dimensional problems.

**DES 309  
ARCHITECTURAL DRAFTING AND  
PERSPECTIVE DRAWING**  
3, 0/6; F 99, 00  
*Prerequisite:* DES 105. Studio exploration of architectural drafting conventions and perspective drawing methods used to produce mechanically generated drawings.

**DES 310  
INTERIOR DESIGN I**  
3, 0/6; Sp 00, 01  
*Prerequisites:* DES 101, DES 103, DES 105, DES 309, and DES 260. Studio introduction to interior design problem-solving processes, design analysis techniques, conceptual ideation, and spatial studies utilizing communication methods in various two- and three-dimensional media.

**DES 312  
HISTORY OF CRAFT: INDUSTRIAL  
REVOLUTION TO THE PRESENT**  
3, 3/0; F 99, 00  
*Prerequisite:* DES 215. Examination of the history and theoretical foundations of crafts from the Industrial Revolution to the present. Developments in crafts are considered in relation to traditional forms and hand-based production methods, to new technologies, new media and new concepts of craft, and to specific cultural and intellectual contexts.

**DES 314  
HISTORY OF GRAPHIC  
DESIGN: INDUSTRIAL  
REVOLUTION TO THE PRESENT**  
3, 3/0; Sp 00, 01  
*Prerequisite:* DES 215. Examination of the history and theoretical foundations of graphic design from the Industrial

Revolution to the present. Developments in graphic design are considered in relation to new technologies and new media and to specific cultural and intellectual contexts.

**DES 317  
DESIGN IN THE  
TWENTIETH CENTURY**  
3, 3/0; offered based on staff availability  
*Prerequisite:* DES 215 or consent of instructor. Examination of the historical and theoretical foundations of design in the 20th century, concentrating on developments in graphic, industrial, and craft design from the 1890s to the present and emphasizing the unique conditions of the present century with respect to new technology and new media.

**DES 318  
SET DESIGN I**  
3, 0/6; offered based on staff availability  
Design for stage; philosophy, theory, practices in design for the dramatic arts; the relationship of scenery, costume, makeup, lighting, and allied stage crafts; function of the designer; development of theater design problems from the design concept to working drawings to the making of models.

**DES 320  
CERAMICS II**  
3, 0/6; 1999-01  
*Prerequisite:* DES 220. Exploration of ceramic form, glaze and firing methods, through assigned problems and individual interests. Lectures and laboratory in glaze materials and glaze design.

**DES 321  
CERAMICS: JUNIOR STUDIO**  
3-12 (3-6 hrs/sem), 0/6-0/12; 1999-01  
*Prerequisite:* DES 320. Advanced study and experience in the total ceramic process through assigned problems and according to individual personal interests.

**DES 330  
APPLIED JEWELRY TECHNIQUES**  
3, 0/6; 1999-01  
*Prerequisite:* DES 230. To develop competence in execution of the basic jewelry techniques. Advanced jewelry techniques will be introduced such as lost wax casting and stone setting. Continued emphasis will be placed on the personal, conceptual, and creative development of jewelry design.

**DES 331  
JEWELRY: JUNIOR STUDIO**  
3-12 (3-6 hrs/sem), 0/0-6/12; 1999-01  
*Prerequisite:* DES 330. Advanced exploration of materials and processes used in jewelry making with emphasis

on design aspects. Individually selected projects.

**DES 336  
METALSMITHING II**  
3, 0/6; offered based on staff availability  
*Prerequisite:* DES 235 or DES 330. Advanced experience in metalsmithing as a continuation of forming techniques introduced in DES 235.

**DES 337  
METALSMITHING: JUNIOR STUDIO**  
3-12 (3-6 hrs/sem), 0/6-0/12; offered based on staff availability  
*Prerequisite:* DES 336. Practical application of metalsmithing techniques with emphasis on raising, forging, welding, riveting, casting, spinning, and other forming methods; parallel studies of work of leading designers, craftspeople; tutorial relationship with instructor, extra class assignments, including minimum studio hours equal to class hours.

**DES 341  
FIBER-WEAVING: JUNIOR STUDIO**  
3-12 (3-6 hrs/sem), 0/6-1/12; offered based on staff availability  
*Prerequisite:* DES 240. Study and experience in basic technique of floor loom weaving; pattern drafting; expressive and controlled design in woven fabric structures; aesthetic and practical considerations.

**DES 346  
FIBER-SURFACE DESIGN:  
JUNIOR STUDIO**  
3-12 (3-6 hrs/sem), 0/6-0/12; 1999-01  
*Prerequisite:* DES 245. Advanced study and exploration of textile printing processes, with emphasis on such techniques as silkscreen, batik, and block printing on cloth; aesthetic and practical consideration in the design of printed textiles.

**DES 350  
TECHNICAL PROCESSES IN WOOD**  
3, 0/6; Sp 00, 01  
*Prerequisite:* DES 250. An exploratory course designed to expose students interested in contemporary design to the technical processes being utilized in the field today. Processes to be emphasized will be joinery, laminating, steambending, vacuum forming, veneering, and finishing.

**DES 351  
WOOD DESIGN: JUNIOR STUDIO**  
3-12 (3-6 hrs/sem), 0/6-0/12; 1999-01  
*Prerequisite:* DES 350. The design and creation of a major project in wood, approached from the viewpoint of the designer-craftsperson utilizing a range of techniques, and hand, power, and machines tools, as needed.

**DES 360  
INTERIOR DESIGN II**  
3, 0/6; F 99, 00  
*Prerequisite:* DES 310. Small-scale residential and commercial design projects facilitate the exploration of functional criteria inherent in the design of interior spaces. Anthropometric requirements; physical, sociological, and psychological client needs; and the research, analysis, and programming skills needed for designing interior spaces are emphasized. Field trips.

**DES 361  
INTERIOR DESIGN III**  
3, 0/6; Sp 00, 01  
*Prerequisite:* DES 360. Commercial interior design, specifically office planning and special populations design, is examined in this course. Through studio projects, advanced research methods, programming strategies, and problem-solving techniques, conceptual design skills and presentation techniques are explored. Field trips.

**DES 362  
AUTOCAD II FOR  
INTERIOR DESIGN**  
3, 0/6; F 99, 00  
*Prerequisite:* DES 262. Advanced study of the AutoCad Computer Aided Drafting program with emphasis on the use of AutoCad in interior design. The use of increasingly complex commands are explored using drafting skills required for interior design application.

**DES 363  
FURNITURE THEORY AND  
APPLICATION**  
3, 3/0; F 99, 00  
An exploration of the furniture elements found within interior design; how construction, strength of materials, and styles are interrelated; how new criteria, such as mass production, material development, and ergonomics, have influenced this evolution. Field trips.

**DES 364  
CONSTRUCTION FUNDAMENTALS I**  
3, 3/0; F 99, 00  
*Prerequisites:* DES 105 and DES 260. Investigation of basic construction systems and materials as related to the built environment. This study covers the principles of structure and behavior (engineering principles) and enclosure and aesthetics (architectural design principles). With increased specificity, material properties affecting installation and appearance are observed. Materials that are examined include wood, concrete, stones, metal, synthetics, and glass. Field trips.



**DES 365  
CONSTRUCTION  
FUNDAMENTALS II**  
3, 3/0; Sp 00, 01

*Prerequisite:* DES 364. An exploration of advanced construction techniques and materials used in the built environment, with specific emphasis on building systems. This study illustrates the principles and philosophy of current building systems, and how they relate to appearance, composition, and installation. Field trips.

**DES 366  
MATERIALS/SPECIFICATIONS**  
3, 3/0; F 99, 00

*Prerequisites:* Concurrent enrollment in or completion of DES 360. The study of the interior finishes and materials used for floors, walls, windows, ceilings, and various interior components as they apply to interior spaces. Emphasis on specification guidelines includes product performance, code restrictions, and environmental concerns. Field trips.

**DES 367  
PROFESSIONAL PRACTICE**  
3, 3/0; F 99, 00

*Prerequisites:* DES 310 and concurrent enrollment in or completion of DES 366. Pre-professional preparation through the study of business principles and practices found in the field of interior design. Topics include project administration and the development of contracts, forms, and documents utilized in the marketplace.

**DES 368  
LIGHTING DESIGN**  
3, 3/0; Sp 00, 01  
*Prerequisite:* DES 360. The study of illumination principles, design criteria, specifications, and systems applied to public and private architectural interiors. Hands-on experience using a lighting lab and 3-D projects reinforce lecture material in a studio setting. Field trips.

**DES 369  
INTERIOR DETAILING**  
3, 0/6; Sp 00, 01  
*Prerequisites:* DES 360, DES 365, and concurrent enrollment in or completion of DES 361 and DES 368. This course explores the practicalities of taking the design from concept to construction. Emphasis is on drawing as communication with various building trades, and how they work in concert to manifest what the designer has drawn. Manual drafting skills are refined. The introduction and changes imposed by the electronic media in the process are examined. Field trips.

**DES 370  
VISUAL COMMUNICATION II**  
3, 0/6; 1999-01  
*Prerequisite:* DES 271. Design problems in visual communication.

Emphasis on creative problem solving and appropriate application to promotional and editorial communication.

**DES 371  
LETTERING AND TYPOGRAPHY II**  
3, 0/6; Sp 00, 01  
*Prerequisite:* DES 370. A continuation of the exploration of typography as an expressive and functional communication medium. Emphasis on design criteria, theories of interpretation and personal creativity. Review of current technology.

**DES 374  
ADVERTISING DESIGN**  
3-6 (3 hrs/sem), 0/6; 1999-01  
*Prerequisite:* DES 271, DES 380. Principles of advertising design as visual communication, motivation, and persuasion; problems in advertising and publication design; illustration, media, and techniques; typographic design and reproduction process.

**DES 380  
ILLUSTRATION**  
3-6 (3 hrs/sem), 0/6; 1999-01  
*Prerequisite:* DES 270. Application of drawing and rendering skills to client-oriented problems. Emphasis on relationship of style to required content; experimentation with techniques in black-and-white and color.

**DES 384  
CHILDREN'S BOOK ILLUSTRATION**  
3, 0/6; offered based on staff availability  
*Prerequisite:* DES 270, DES 380, or consent of instructor. A survey of illustration in children's literature, including problems devoted to defining, developing and evaluating an effective relationship between verbal and visual imagery; exploration of media, technique, and style, stressing individual interpretation and development based on the understanding of skill, communication, production, design, and audience.

**DES 414  
SENIOR SEMINAR/EXHIBITION**  
4, 3/2; Sp 00, 01  
A series of lectures and discussions concerning topics such as self-presentation concepts; job and professional interviews; business practices, record keeping, and taxes; legal contracts and copyrights; exhibitions and promoting personal work.

**DES 419  
EXHIBITION TECHNIQUES**  
3, 0/6; offered based on staff availability  
Basic design theory and communication in the field of exhibits, displays, and signage. Emphasis on structural concepts, lighting, kinetics, function, materials, and visual aesthetics. Additional credit by special arrangement with the instructor.

**DES 421  
CERAMICS: SENIOR STUDIO**  
3-12 (3-6 hrs/sem), 0/6-0/12; 1999-01  
*Prerequisite:* DES 321. Emphasis on the development and presentation of the student's personal direction in clay, culminating in a portfolio presentation and a final show.

**DES 431  
JEWELRY: SENIOR STUDIO**  
3-12 (3-6 hrs/sem), 0/6-0/12; 1999-01  
*Prerequisite:* DES 331. A concentration of studio work by the senior major in jewelry. The student will plan and execute a series of problems and projects in consultation with his or her instructor.

**DES 437  
METALSMITHING: SENIOR STUDIO**  
3-12 (3-6 hrs/sem), 0/6-0/12; offered based on staff availability  
*Prerequisite:* DES 337. Practical application of metalsmithing techniques with emphasis on raising, forging, welding, riveting, casting, spinning, and other forming methods; parallel studies of work of leading designers/craftspersons; tutorial relationship with instructor; extra class assignments, including minimum studio hours equal to class hours.

**DES 441  
FIBER-WEAVING: SENIOR STUDIO**  
3-12 (3-6 hrs/sem), 0/6-0/12; offered based on staff availability  
*Prerequisite:* DES 240, DES 245, DES 341 desirable. Exploration of various fiber techniques on an advanced level, including multiple harness pattern weaving, garment design, dyed, warp methods, and various combinations of traditional and experimental techniques according to student interest and need.

**DES 446  
FIBER-SURFACE DESIGN: SENIOR STUDIO**  
3-12 (3-6 hrs/sem), 0/6-0/12; 1999-01  
*Prerequisite:* DES 346. A concentration of studio work by the senior major in fiber. The student will plan and execute a series of self-determined problems and projects in consultation with his/her instructor.

**DES 451  
WOOD DESIGN: SENIOR STUDIO**  
3-12 (3-6 hrs/sem), 0/6-0/12; 1999-01  
*Prerequisite:* DES 351. A concentration of studio work by the senior major in wood. The student will plan and execute a series of problems and projects in consultation with his/her instructor.

**DES 460  
INTERIOR DESIGN IV**  
3 0/6; F 99, 00  
*Prerequisite:* DES 361. This course examines complex design issues, with particular attention to mixed use unconventional design problems. Design paradigms applied to large-scale commercial studio projects offer an opportunity for computer-assisted design application. Field trips.

**DES 461  
INTERIOR DESIGN V**  
3, 0/6; Sp 00, 01  
*Prerequisite:* DES 460. This course constitutes the final studio experience prior to graduation and features one major design project. Students are expected to focus their design initiative with increased objectivity and adopt a comprehensive approach to the interior design process utilizing proposal, research, and design. Field trips.

**DES 473  
GRAPHIC DESIGN**  
3-9 (3 hrs/sem); 0/6; 1999-01  
*Prerequisite:* DES 371, DES 380. Advanced problems in advertising, publication, and packaging design. Materials, techniques, and computer processes used in preparations of visuals, design presentations, and mechanicals. Emphasis on individual solutions to problems typical of those confronting the professional graphic designer.

**DES 475  
GRAPHIC DESIGN PRACTICUM**  
6, 0/20; 1999-01  
*Prerequisite:* Completion of all required courses in graphic design specialization. Practical experience in an advertising agency, design studio, or corporate design office under the sponsorship of an art director, working two days a week for six credit hours, or working on practical problems in a simulated agency situation for ten hours a week for three credit hours. Admission by permission of graphic design advisers after portfolio review.

**DES 476  
ADVANCED GRAPHICS**  
3-6, 0/6-0/12; offered based on staff availability  
*Prerequisite:* Senior standing and portfolio review. An extension of graphic design into actual job situations. Students work in a studio environment. They experience client contact, research, cost considerations, conceptualizing, presentation of design solutions, and production problems.

**DES 477  
COMPUTER ASSISTED GRAPHIC DESIGN I**  
3, 0/6; 1999-01  
*Prerequisite:* Consent of instructor. Fundamentals of computer graphics.

Hands-on experience. Basic programming for still and animated images. System configuration and design applications.

**DES 478  
COMPUTER ASSISTED GRAPHIC DESIGN II**  
3, 0/6; 1999-01  
*Prerequisite:* DES 477. Continuation of DES 477. Structures of software design. Advanced programming skills. Overview of the state of the art.

**DES 479  
MULTIMEDIA COMPUTER DESIGN**  
3, 0/6; 1999-01  
*Prerequisites:* DES 477, DES 478. This course is an introduction to multimedia computer authoring. Students gain experience in the design and authoring process in multimedia. Class assignments involve working with digital images, video, and sound using state-of-the-art software culminating in creative presentations and Web page documents.

**DES 488  
INTERNSHIP**  
3, 0/6; F 99, 00  
*Prerequisite:* Concurrent enrollment in or completion of DES 460. The interior design internship is guided and supervised exposure to professional interior design operations through on-the-job work experience in an authorized design firm, department, studio, or showroom. To earn three credit hours, the student must complete 120 contract hours with the firm, provide a written report of their work experience, and receive a written evaluation from their employer.

**DES 495  
PROJECT**

**DES 499  
INDEPENDENT STUDY**

## DISTRIBUTIVE AND BUSINESS EDUCATION

**Business Department**  
*Michael J. Littman, Chair*  
Chase Hall 302

**OEC 301  
PRINCIPLES OF OCCUPATIONAL EDUCATION**  
3, 3/0; 1999-01  
Introduction to the teaching of occupational education courses in public schools; principles, philosophy and objectives; historical development of occupational education and current issues for an occupational education program.

*Required for business and distributive education, business education, technology education, and vocational technical education majors.*

**OEC 302  
CURRICULUM AND EVALUATION IN OCCUPATIONAL EDUCATION**  
3, 3/0; 1999-01  
Introduction to the teaching methods of occupational education courses in the public schools; introduction to test construction and evaluation techniques utilized in occupational education courses.

*Required for business and distributive education, business education, technology education, and vocational technical education majors.*

**BUS 411  
METHODS OF TEACHING BUSINESS AND DISTRIBUTIVE EDUCATION**  
3, 3/0; 1999-01  
*Prerequisites:* OEC 301, OEC 302. Basic principles and methods of teaching business and marketing subjects. Prepares the student to effectively teach subjects in this area.

**DED 415  
STUDENT TEACHING**  
6, 0/24; 1999-01  
*Prerequisites:* BUS 411, OEC 301, OEC 302. Full-time teaching in a public school for one semester under the supervision of a master teacher and a college supervisor; daily and long-range planning, unit teaching; classroom management; individual and group instruction; participation in total school program; weekly on-campus seminar as assigned.

**DED 416  
STUDENT TEACHING**  
6, 0/24; 1999-01  
*Prerequisites:* BUS 411, OEC 301, OEC 302. Full-time teaching in a public school for one semester under the supervision of a master teacher and a college supervisor; daily and long-range planning, unit teaching; classroom management; individual and group instruction; participation in total school program; weekly on-campus seminar as assigned.

## EARTH SCIENCES

**Earth Sciences and Science Education Department**  
*Stephen J. Vermette, Chair*  
Science Building 271

All courses in earth sciences may include occasional field trips. Expenses for these trips are shared by the participants.

**GES 101  
INTRODUCTORY GEOLOGY**  
3, 3/0 CM  
An introduction to physical geology; the earth and the processes operating on and within it; the formation of rocks and minerals, volcanoes; earthquakes, mountain building, continental drift, plate tectonics, glaciers, and the ice ages. Concurrent registration in GES 103 is recommended for geology and earth science majors.

**GES 102  
HISTORICAL GEOLOGY**  
3, 3/0 CM  
An introduction to the history of the earth from its formation 4.5 billion years ago, and the role of continental drift, sea floor spreading, and plate tectonics in its development. The evolution of life as shown in the fossil record.

**GES 103  
INTRODUCTORY GEOLOGY LABORATORY**  
1, 0/2  
*Prerequisite:* GES 101 (may be concurrent). Investigations and activities in identification of rocks and minerals, map and aerial photograph interpretation.

**GES 111  
GENERAL OCEANOGRAPHY**  
3, 3/0 CM  
An introduction to the science of the sea. Includes biological, physical, chemical, geological, and environmental aspects of oceanography.

**GES 131  
INTRODUCTORY ASTRONOMY**  
3, 3/0 CM  
A non-mathematical survey of the astronomical universe. A survey of the sun, planets, moons, and comets will precede an investigation of stars, galaxies, and finally the universe. Observation, planetarium, and laboratory sessions will supplement the lectures.

**GES 223  
ENVIRONMENTAL EARTH SCIENCE**  
3, 3/0 CM  
A practical study of the interrelation of humans and renewable earth materials, earthquake prediction and control, volcanoes, land movements, and human effect on weather and climate.

**GES 224  
GEOLOGICAL HAZARDS**  
3, 3/0 CM  
A study of catastrophic geologic events with an emphasis on earthquakes, volcanism, and landslides. Includes causes, physical effects, prediction, and social implications.

**GES 241  
METEOROLOGY**  
3, 3/0 CM  
An introduction to weather, including prediction, meteorological instruments, atmospheric movements, humidity and precipitation, high and low pressure areas, air masses and fronts, heat balance, and climate past and present.

**GES 300  
SEDIMENTOLOGY**  
3, 2/2  
*Prerequisites:* GES 101 and GES 103. An introduction to the dynamics of erosion, transport, and deposition of sedimentary particles. Includes an introduction to modern and ancient sedimentary environments.

**GES 301  
STRATIGRAPHY**  
3, 3/0  
*Prerequisites:* GES 101; GES 102 (may be taken concurrently); GES 103; GES 300. Basic principles and interpretation of the stratigraphic record, with emphasis on the practical application of stratigraphic data in interpretation of earth history and exploration for fossil fuels and groundwater resources.

**GES 302  
INVERTEBRATE PALEONTOLOGY**  
4, 3/2; Sp 00, 01  
*Prerequisite:* GES 101; GES 102 (may be taken concurrently). Invertebrate fossils and their stratigraphic distribution.

**GES 303  
MINERALOGY AND PETROLOGY**  
4, 3/2  
*Prerequisites:* GES 101 and GES 103. One semester chemistry recommended. Study of crystals, minerals, and rocks, emphasizing description, identification, and origin.

**GES 307  
GEOMORPHOLOGY**  
3, 3/0; F 99  
*Prerequisites:* GES 101 or GEG 101. A study of the structural controls and processes which affect the development of the surface of the earth. Emphasis on selected geologic environments.

**GES 308  
STRUCTURAL GEOLOGY**  
4, 3/2; F 99  
*Prerequisites:* GES 101 and GES 103. Analysis of folds, faults, and other structural features in sedimentary and metamorphic terrains; introduction to rock mechanics; regional tectonics.

**GES 310  
GREAT LAKES ENVIRONMENTAL ISSUES**  
3, 3/0  
*Prerequisite:* Junior or senior standing or consent of instructor. An introduction to the environmental



problems and their causes in the Great Lakes region. An environmental history of the Great Lakes will be presented. Case studies will be used to illustrate current environmental problems and ongoing restoration efforts.

**GES 314**  
**GEOLOGICAL OCEANOGRAPHY**  
3, 2/2  
*Prerequisite:* GES 111 or equivalent.  
A description of the sediments, structure, and history of the ocean basins.

**GES 315**  
**MARINE ENVIRONMENTS**  
6, 3/0 G  
*Prerequisite:* GES 111 or equivalent.  
A survey of coastal and deep-sea environments with focus on the interaction of physical, chemical, biological, and geological processes operating in each. Emphasis on coastal environmental issues including shoreline erosion and sea level rise; coastal development; and marine pollution.

**GES 331**  
**MODERN SOLAR SYSTEM**  
3, 3/0; Sp 00, 01  
*Prerequisite:* GES 131 or equivalent.  
The moon and the planets, their appearance, atmospheres, and surfaces, planetary magnetic fields, asteroids, meteoroids, comets, theories of the origin of the planetary system, the possibility of life elsewhere in the solar system. Emphasis on recent problems in our understanding of the solar system.

**GES 332**  
**STELLAR AND GALACTIC ASTRONOMY**  
3, 3/0; F 99, 00  
*Prerequisite:* GES 131 or equivalent.  
How astronomers have determined the properties of stars, the energy of stars, the masses and compositions of stars, stellar evolution, the structure of the galaxy, the movement of stars in the galaxy.

**GES 335**  
**METHODS OF OBSERVATIONAL ASTRONOMY**  
3, 3/0  
*Prerequisite:* GES 131 or equivalent.  
Locating celestial objects in the night sky; use of astronomical telescopes to locate, observe, and photograph stars, nebulae, and galaxies; use of observing aids.

**GES 339**  
**COSMOLOGY**  
3, 3/0; Sp 00, 01  
*Prerequisite:* GES 131 or equivalent.  
Cosmology, the primeval fireball, quasars, pulsars, black holes, origin of the elements.

**GES 350**  
**ENVIRONMENTAL GEOCHEMISTRY**  
3, 3/0  
*Prerequisites:* GES 101 and junior or senior standing.  
Chemical nature of the earth, emphasizing chemistry associated with the polluted environment.

**GES 401**  
**IGNEOUS AND METAMORPHIC PETROLOGY**  
4, 3/2; Sp 00, 01  
*Prerequisite:* GES 304 or consent of instructor.  
Description, origin, and classification of igneous and metamorphic rocks.

**GES 403**  
**GLACIAL GEOLOGY**  
3, 3/0  
*Prerequisite:* GES 307.  
A study of glacial processes, landforms, and landscapes, with emphasis on New York State. Develops a model for the sequence of glacial events and the causes of climate change. Includes field trips.

**GES 404**  
**FIELD GEOLOGY**  
3, 2/2; Sp 00, 01  
*Prerequisite:* GES 101.  
Application of geological principles and techniques in the interpretation of earth features in the field.

**GES 405**  
**GEOLOGY OF NORTH AMERICA**  
3, 3/0; Sp 00, 01  
*Prerequisite:* GES 101 and GES 102.  
Major physical provinces of the United States and adjacent areas; their geological history, structure, and topographic development.

**GES 409**  
**FLUVIAL GEOMORPHOLOGY**  
3, 2/2; Sp 00, 01  
*Prerequisite:* GES 307.  
A study of the variables which influence the behavior of water flowing on the surface of the earth, the effects of flowing water on the landscape, emphasis on field and lab work.

**GES 431**  
**PLANETARIUM SEMINAR**  
3, 3/0  
*Prerequisite:* Two semesters of astronomy.  
The Celestial Sphere; operating, maintaining, and administering the planetarium; audio-visual aids in the planetarium; planetarium programming. Using the planetarium to teach. Includes supervised teaching experience.

**GES 445**  
**WEATHER FORECASTING**  
3, 3/0  
*Prerequisite:* GES 241.  
Students will learn how meteorological data is collected and processed, and how to interpret, prepare, and present forecasts.

**GES 452**  
**HYDROGEOLOGY**  
3, 3/0; F 99, 00  
*Prerequisites:* GES 101 or GEG 101 and at least one 300-level GES course.  
This course will present fundamentals necessary to understand the occurrence, movement, and management of our largest resource of readily available fresh water. Groundwater protection and remediation of already contaminated supplies are included to increase environmental awareness.

**GES 460**  
**APPLIED ENVIRONMENTAL METHODS**  
3, 3/0  
*Prerequisites:* GES 101 and junior or senior standing.  
Applied study of contaminants in the environment. Emphasis on environmental law and regulations, hazardous chemicals, and remediation approaches used by environmental professionals.

**GES 488**  
**INTERNSHIP**  
1-15, 0/2-30  
*Prerequisite:* Senior standing as department major; a minimum of 3.0 GPA in major; and 2.5 GPA overall.  
*Requires department application and approval.*  
Practical work on an individual basis with a participating organization.

**GES 495**  
**PROJECT**  
1-3, 0/2-6  
*Prerequisite:* Approval of a faculty sponsor must be secured prior to registration.  
Environmental, energy, geology, or astronomy related areas.

**GES 498**  
**HONORS RESEARCH**  
3-6, 0/6  
*Prerequisite:* Acceptance in geology or earth sciences Honors Program.  
Includes completion of an honor's thesis and seminar. May be repeated for a maximum of six credits.

**GES 499**  
**INDEPENDENT STUDY**  
3-6, 0/6-12  
*Prerequisite:* Approval of a faculty sponsor must be secured prior to registration.  
Environmental, energy, geology, or astronomy related areas.

## ECONOMICS AND FINANCE

**Economics and Finance Department**  
*Douglas G. Koritz, Chair*  
Classroom Building B207

**ECO 101**  
**THE ECONOMIC SYSTEM**  
3, 3/0; 1999-01 CS  
An overview course which presents fundamental economic concepts, basic economic institutions, and contemporary economic issues. Topics include supply and demand, markets, gross national product (GNP), inflation and recession, and the role of government. In addition, economic issues such as energy, environment, education, and health care will be included when appropriate. Will not count toward the credit hour requirement of majors. May not be taken concurrently with or subsequent to ECO 201 or ECO 202.

**ECO 103**  
**ECONOMIC HISTORY OF THE UNITED STATES**  
3, 3/0; F 99, 00 CS  
Development of the U.S. economy, the role of government in the economy, and organized labor from the colonial era to the present.

**ECO 110**  
**PERSONAL FINANCE**  
3, 3/0; 1999-01  
*Prerequisite:* Must pass math competency.  
Introduces students to the basics of personal and household finance. Topics include strategies for saving money, getting out of debt, purchasing a home or automobile and saving for retirement. Students will also be introduced to how to invest savings and how to purchase insurance.

**ECO 201**  
**PRINCIPLES OF MACROECONOMICS**  
3, 3/0; 1999-01 CS  
A study of the major forces in the economic system—consumer expenditures, business investment, and government spending—to determine their influences on the level of national income. Includes a discussion of money and banking, monetary and fiscal policies, inflation and recession, economic growth, and international monetary problems.  
*Required for majors. Either ECO 201 or ECO 202 may be taken first.*

**ECO 202**  
**PRINCIPLES OF MICROECONOMICS**  
3, 3/0; 1999-01 CS  
A study of the individual economic units in the economy—consumer, firms, and resource owners—to determine how their decisions influence market prices and industrial output. Includes a discussion of supply and demand, competition and monopoly, corporations, and capitalism, and socialism, labor and international trade.  
*Required for majors. Either ECO 201 or ECO 202 may be taken first.*

**ECO 220**  
**ECONOMICS OF SPORTS**  
3, 3/0; offered based on staff availability  
Introduces the principles of economic analysis through investigation of the sports industry. The profits, labor conflicts, and other special features of this industry are analyzed at the level of professional and collegiate play.

**ECO 300**  
**LABOR ECONOMICS**  
3, 3/0; offered based on staff availability  
*Prerequisite:* ECO 201 or ECO 202.  
This course will consider competing theories of how labor markets operate in market economics. It will address the problems in labor markets (such as unemployment and discrimination). The history of how labor markets have evolved in the U.S. and the role of government in affecting outcomes are also studied. Current issues such as the increasing international competition in both product and labor markets, the impact of technological change in altering skill and educational requirements of the work force, and structural change in the compensation and occupational distribution are analyzed.

**ECO 301**  
**ECONOMICS OF LABOR RELATIONS**  
3, 3/0; F 99, 00 CS  
A study of present-day techniques in labor management negotiations; the collective bargaining agreement; the development and structure of organized labor; labor law; and labor economics.

**ECO 302**  
**WOMEN IN THE ECONOMY**  
3, 3/0; Sp 00, 01 D  
*Prerequisite:* ECO 201 or ECO 202 recommended.  
An examination of women's position in the U.S. economy, how it has changed, how it compares to men's position and to women's position in other countries. A study of the theoretical and empirical issues in analyzing women's economic status.

**ECO 304**  
**MONEY AND BANKING**  
3, 3/0; 1999-01  
*Prerequisite:* ECO 201, MAT 110, or consent of instructor.  
The nature and function of money; the American monetary system and the role of the banking system; the structure and functions of Federal Reserve System; fundamental monetary theory and its relation to monetary policy; current problems relating to the impact of monetary policy on the level of prices and employment.

**ECO 305**  
**STATISTICS FOR ECONOMICS**  
3, 3/0; 1999-01  
Introduction to elementary statistical principles, descriptive statistics and statistical inference; applications in economics, business, and criminal justice.  
*Required for majors.*

**ECO 307**  
**INTERMEDIATE MICROECONOMICS**  
3, 3/0; 1999-01  
*Prerequisite:* ECO 202 and MAT 110 or equivalent.  
An advanced study of the individual economic units in the economy to determine how their decisions influence market prices and industry output. Topics include the theory of consumer demand, the theory of the firm, resource allocation, income distribution, and welfare economics.  
*Required for majors.*

**ECO 308**  
**INTERMEDIATE MACROECONOMICS**  
3, 3/0; 1999-01  
*Prerequisite:* ECO 201 and MAT 110 or equivalent.  
An advanced study of aggregate economic activity to determine its influence on the level of national income. Topics include classical and Keynesian theory, monetary and fiscal policies, business cycles, forecasting, and economic growth.  
*Required for majors.*

**ECO 312**  
**URBAN ECONOMICS**  
3, 3/0; Sp 00, 01 D  
*Prerequisite:* ECO 201 or ECO 202, or consent of instructor.  
An application of economic analysis to urban growth, land use, poverty, housing, segregation, pollution, congestion, and urban public finance.

**ECO 314**  
**CORPORATION FINANCE**  
3, 3/0; 1999-01  
*Prerequisite:* ECO 201 or ECO 202, BUS 312, CIS 101.  
Introduction to the analytical techniques and terminology of corporate financial management. Topics include the financial environment, yield curve analysis, ratio analysis, the Du Pont system, pro-forma balance sheets and income statements,

the Capital Asset Pricing Model, the intrinsic value of stocks and bonds, the time value of money, capital budgeting, and working capital management.

**ECO 320**  
**MANAGERIAL ECONOMICS**  
3, 3/0; Sp 00, 01  
*Prerequisites:* ECO 202, ECO 305, MAT 110, or equivalent is recommended.  
The utilization of economic analysis to formulate and provide guides to the solution of management decision and control problems and the development of appropriate business policies.

**ECO 325**  
**INDUSTRIAL ORGANIZATION**  
3, 3/0; F 99, 00  
*Prerequisite:* ECO 202 or consent of instructor.  
This course examines the links between economic theory and structure, conduct, and performance of national and international industry over time. Designed for majors in both economics and business; emphasis is placed on price theory, inter- and intra-firm relationships, and industrial policy.

**ECO 345**  
**ESTATE PLANNING**  
3, 3/0; offered based on staff availability  
*Prerequisite:* Junior or senior standing.  
A study of the concepts and techniques of lifetime financial planning that may lead to increases in one's estate as well as the conservation of existing assets. Estate planning provides financial security during retirement years and facilitates the intended and orderly disposition of property at disability or death. A critical evaluation of the traditional planning techniques is followed by an analysis of major advanced methods, including various living trusts, irrevocable life insurance trusts, charitable remainder trusts and family limited partnerships.

**ECO 350**  
**PUBLIC FINANCE**  
3, 3/0; offered based on staff availability  
*Prerequisite:* MAT 110; ECO 307 recommended.  
Analysis of the nature and growth of public expenditures; principles of taxation; federal, state and local revenue; introduction to fiscal policy and theory; significance of public debt; selected problems in inter-governmental fiscal relations.

**ECO 355**  
**THE ECONOMICS OF ENERGY AND THE ENVIRONMENT**  
3, 3/0; F 99  
*Prerequisite:* ECO 202 or consent of instructor.  
An examination of the micro and macroeconomic activity imposed by the availability of energy resources and by environmental considerations. Alternative policy strategies relating to energy and the

environment will be evaluated in terms of their economic impact.

**ECO 360**  
**INTRODUCTION TO THE ECONOMIC ANALYSIS OF LAW**  
3, 3/0; offered based on staff availability  
*Prerequisite:* ECO 307 or consent of instructor.  
An introductory approach to the study of law from an economic perspective. No prior knowledge of law is necessary and all the economic concepts needed will be presented. The objective is to use economic concepts and reasoning to explain and predict the consequences of legal rules. For this purpose, important issues found in court cases involving, for example, contracts, property law, liability, and environmental law will be used.

**ECO 400**  
**INTERNATIONAL FINANCE**  
3, 3/0; offered based on staff availability  
*Prerequisites:* ECO 201, ECO 202, ECO 314; ECO 308 suggested.  
Basic theories in international finance and applications are covered and include: analysis of exchange rate markets, international capital markets, multinational capital budgeting, cash management, and international banking. This course is meant to provide the student with a strong background in international financial markets and international financial policy.

**ECO 401**  
**INTERNATIONAL ECONOMICS**  
3, 3/0; offered based on staff availability G  
*Prerequisites:* ECO 201 and ECO 202; ECO 307 recommended.  
Basic theories of international trade; the international monetary mechanism and the institutions which facilitate its operation; foreign economic policy and contemporary problems relating to tariffs, payments, balances, devaluation, and gold as a means of setting international payments in balances.

**ECO 403**  
**COMPARATIVE ECONOMIC SYSTEMS**  
3, 3/0; Sp 00, 01 G  
*Prerequisite:* ECO 201 and ECO 202 or consent of instructor.  
Essential characteristics of the market economy as it has evolved to the present time; increasing social control; its strengths and weaknesses; the contrast with the socialist system as it operated in the Soviet Union; strengths and weaknesses of Soviet socialism.

**ECO 404**  
**ECONOMIC DEVELOPMENT**  
3, 3/0; F 99, 00 G  
*Prerequisite:* At least two economics courses, not including ECO 101.  
This course analyzes the difficulties of



economic development, industrialization, and worldwide poverty, and considers competing theories of economic growth and structural change. It addresses problems of population, natural resources and environment, and the growing interdependency of U.S. and lesser developed countries' (LDCs) economies. The crucial role of women in development, as well as ethnic and other social and cultural relationships will be considered. Other topics include: The lesser developed countries' (LDCs) debt crisis and international finance; macro- and micro-economic planning models, and the policy-making process; development strategies; and specific case studies of LDCs in Africa, Asia, and Latin America.

**ECO 405  
HISTORY OF  
ECONOMIC THOUGHT**  
3, 3/0; F 99, 00

*Prerequisite:* ECO 201 and ECO 202, or consent of instructor. A study of the attempts of key economic thinkers from Aristotle until the present time to analyze economic phenomena and to provide guidance for economic policy.

**ECO 411  
REGIONAL ECONOMIC ANALYSIS**  
3, 3/0; offered based on staff availability  
*Prerequisites:* ECO 201 and ECO 202, or consent of instructor. MAT 110 recommended. Analysis of location of economic activity, urbanization patterns, and regional growth and development. Techniques in measuring the level of economic activity of a region will be given to the Western New York area and the impact of the Buffalo urban area on development of the surrounding region.

**ECO 414  
INVESTMENT MANAGEMENT**  
3, 3/0; Sp 00, 01  
*Prerequisite:* ECO 314. An examination and analysis of operating and efficiency characteristics of security markets. The application of institutional, technical, and theoretical approaches to security analysis and evaluation of investment portfolios.

**ECO 415  
CASES IN CORPORATE FINANCE**  
3, 3/0; offered based on staff availability  
*Prerequisites:* ECO 314; ECO 307 recommended. An application of the case approach to problems in business finance. Topics include working capital financing, term borrowing, capital budgeting, mergers, and acquisitions.

**ECO 416  
ADVANCED  
CORPORATION FINANCE**  
3, 3/0; F 99, 00  
*Prerequisites:* ECO 307 and ECO 314. An advanced study of the practice and theory of corporation finance, focusing on topics not covered in introductory corporation. Topics include advanced debt policy, options, leasing, mergers, international financial management, and pension plans.

**ECO 417  
DERIVATIVE SECURITIES**  
3, 3/0; F 99, 00, 01  
*Prerequisite:* ECO 314. The investigation of how modern securities are created from their basic components. Some examples include circus swaps, artificial Treasury bills, artificial cash, synthetic puts, and portfolio insurance products.

**ECO 418  
BOND MARKETS**  
3, 3/0; F 99, 00  
*Prerequisite:* ECO 314. A beginning course in bond management. Topics include bond pricing, yield measurements, return measurements, duration, convexity, Treasury securities, agency securities, corporate debt, municipal bonds, the term structure of interest rates, mortgage loans, pass-through securities, CMOs, return characteristics of derivative products, and bond hedging using options and futures.

**ECO 424  
ECONOMETRICS**  
3, 3/0; 1999-01  
*Prerequisites:* MAT 126, ECO 201 or ECO 202, ECO 305 or equivalent statistics course. Introduces students to applied statistical analysis with primary emphasis on business and economic applications. Provides quantitative background for graduate study in economics, business, public administration, and related social science, as well as for many types of employment.

**ECO 488  
INTERNSHIP**  
3-6; 1999-01  
*Prerequisites:* ECO 201, ECO 202, and one relevant elective; 2.5 GPA; junior or senior standing. The internship program is designed to provide an opportunity to apply and integrate economic concepts and methodologies in an off-campus, field setting, under the direction of a faculty sponsor with the cooperation of a designated field supervisor. A maximum of three credits of ECO 488, ECO 495, ECO 499 may be used in the major.

**ECO 490  
SENIOR SEMINAR**  
3, 3/0; 1999-01  
*Prerequisites:* Economics major with senior standing; ECO 305, ECO 307,

ECO 308, ECO 424 recommended. A capstone course in economics required of all economics majors during their senior year. Students will investigate selected advanced topics in economics, and present their findings to the seminar. Each student will write a senior paper of his or her choice on a topic in economics or financial economics.

**ECO 495  
PROJECT**  
*Prerequisites:* 3.0 GPA (in major and overall); ECO 307, ECO 308, or approval by Curriculum Committee. A maximum of three credits of ECO 488, ECO 495, ECO 499 may be used in the major.

**ECO 498  
HONORS RESEARCH I**  
3  
*Prerequisite:* Admission to honors in economics. A review of the literature and development of the theoretical issues relevant to the research topic.

**ECO 498  
HONORS RESEARCH II**  
3  
*Prerequisite:* Honors Research I. Appropriate applied analysis relevant to the development and resolution of the research topic begun in Honors Research I prepared in written form and orally defended before the faculty mentor, economics Curriculum Committee, and interested students and faculty.

**ECO 499  
INDEPENDENT STUDY**  
*Prerequisites:* 3.0 GPA in major and overall; ECO 307, ECO 308, or approval by Curriculum Committee. A maximum of three credits of ECO 488, ECO 495, ECO 499 may be used in the major.

## EDUCATIONAL FOUNDATIONS

**Educational Foundations  
Department**  
*Betty Cappella, Chair*  
Bacon Hall 306

**EDF/GSS 100  
ADULTS AND LEARNING**  
1, 1/0; 1999-01  
This course focuses upon issues central to adults returning to college: the nature of participation in adult learning theory, and the vital role adult education plays in a rapidly changing technological and global society. This course is primarily for first-time or returning adult students.

**EDF 200  
INTRODUCTION TO URBAN  
EDUCATION**  
3, 3/1; Sp 00, 01  
This course traces the formation and development of the inner city from early migration until the present time and shows how the development of the schools is inextricably linked to the socio-economic and political development of the inner city. The inner city schools' responses to the changing demographics are dealt with in the context of the implications such changes have for policy making and education practice. Students will spend 10 hours in an inner-city school setting.

**EDF 202  
CHILD DEVELOPMENT  
AND EDUCATION**  
3, 3/0; 1999-01  
An introduction to the study of child behavior and development with emphasis on implications for teaching and learning. The focus will be on the child in school, from early childhood through preadolescence. Topics include child study and observation methods, theories of development, nature and sources of individual development from biological, cultural, and behavioral perspectives, with emphasis on the following areas of development as they apply to the classroom: cognitive, social, emotional, and physical. *Required for elementary education and exceptional education majors according to program; elective for others beyond freshman level.*

**EDF 203  
SCHOOL AND SOCIETY**  
3, 3/0; 1999-01  
Education as a function of a democratic society; sociological and historical backgrounds of the schools; current issues and problems affecting the schools; objectives, control, and financial support of education in the State of New York and the U.S.; directed observations. *Required for elementary education and exceptional education majors according to program; elective for others beyond freshman level.*

**EDF 206  
INTRODUCTION TO THE GROUP  
EXPERIENCE**  
3, 3/0; offered based on staff availability CT  
Exploration and development of basic attitudes, understandings, and skills involved in democratic group participation through laboratory and academic experiences. Elective.

**EDF 207  
LEARNING IN COLLEGE:  
ORIENTATION FOR  
UNDERGRADUATES**  
3, 3/0; 1999-01  
This course is designed to acquaint students with the psychological and

sociological understanding necessary for college achievement and adjustment. Topics include human development during adulthood, higher education in the U.S., communication, self-awareness, learning, vocational goals, and the college as a sociocultural system.

**EDF/AAS 221  
THE HISTORY OF BLACK  
EDUCATION IN AMERICA**  
3, 3/0; offered based on staff availability  
An examination of the role of blacks in the American educational system. Relevant information on various changes that have taken place in order to improve or retard education for blacks. The course will explore approaches for providing meaningful education for blacks now and in the future.

**EDF 222/AAS 222  
THE DEVELOPMENT OF  
MODERN EDUCATION IN AFRICA**  
3, 3/0; offered based on staff availability  
A phase of study of educational changes in Africa beginning with the colonial era to the present time. One important aspect of the course will be the examination of the effect of these changes on social and political issues in Africa and abroad.

**EDF 225  
ETHNIC STUDIES IN THE  
ELEMENTARY SCHOOL**  
3, 3/0; F 99, 00  
This course is responsive to ethnic diversity in American life and education. Cultural minorities, e.g., Native Americans, blacks, Spanish-speaking groups, Jews; white ethnic groups, and mainstream American life and education.

**EDF 302  
EDUCATIONAL  
PSYCHOLOGY: ELEMENTARY  
EDUCATION**  
3, 3/0; 1999-01  
This course is designed to help prospective elementary education teachers understand learners, the learning process, how to evaluate learning, and how to establish a classroom environment which will maximize learning. *Required of elementary education and exceptional education majors according to program. Should be taken concurrently with EDU 314.*

**EDF 303  
EDUCATIONAL PSYCHOLOGY**  
3, 3/0; 1999-01  
Psychological principles underlying learning and effective teaching, the effect of social and personality factors on learning, assessment, and evaluation of individual progress; diagnosis of difficulties in learning, discipline, pro-

gramming, and planning as related to instruction; directed observations. *Required for secondary education majors according to program.*

**EDF 309  
ADULTHOOD**  
3, 3/0; offered based on staff availability  
*Prerequisite:* Junior or senior standing. The study of human development during the adult years. Includes a consideration of the physiological and psychological development of the individual from young adulthood through old age; changing roles, conflicts, adjustments, dilemmas, aspirations, potentials, responsibilities, rights, freedoms, as indicated in theory and research.

**EDF 311/SOC 311  
FAMILY VIOLENCE**  
3, 3/0; Sp 00, 01  
This course provides a comprehensive overview and critical investigation into the field of family violence. Covers child abuse, courtship, spouse abuse, sibling violence, adolescent maltreatment, parent abuse, and elder abuse. Explores history, prevalence, susceptibility factors, patterns of social interaction, demographics, sexual and emotional abuse, and the violence-prone personality. Theoretical perspectives are brought to bear on family violence, including cycle theory of violence, and are integrated within the broader social science perspectives.

**EDF 345  
PARENTING**  
3, 3/0; F 00  
Explores the relevant issues facing parents and the professionals who work with them in today's changing society. Includes both classical and current research, with an emphasis on practical application and implication, as well as a developmental approach to understanding parent-child relationships. Because of the diversity of contemporary families, the course helps prepare students to work more effectively with parents of varied cultural backgrounds, family structures, lifestyles, and at-risk factors.

**EDF 346  
TEENAGE SEXUALITY**  
3, 3/0; Sp 01  
A critical examination of teenage sexuality and factors influencing its emergence; considers how sexuality education can be incorporated in the teaching-learning process at home and in school, ways to facilitate cooperative efforts by parents and teachers. Offers opportunities to develop skills in communicating with teenagers about their sexuality and strategies whereby teens can deal with sexuality concerns more effectively. Surveys community resources for teens, parents, teachers; examines special issues and problems.

**EDF 353  
HUMAN DEVELOPMENT  
DURING EARLY ADOLESCENCE**  
3, 3/0; 1999-01  
An introduction to the study of pre-adolescent and adolescent behavior and development with emphasis on implications for teaching. Includes a consideration of the nature of adolescence, developmental and behavioral characteristics, learning and education, problems and issues of adolescents in today's society, ways teachers can study adolescents, and self-understanding.

**EDF 403  
HISTORICAL AND PHILOSOPHICAL  
FORCES INFLUENCING  
SECONDARY EDUCATION**  
3, 3/0; 1999-01  
European influences in American education; religious influences in education; secular influences in education; evolving concepts of education in a democracy; social and economic pressures in education; development of the secondary school; conflicting philosophies in current education. *Required for secondary education majors according to program.*

**EDF 410  
PHILOSOPHY OF EDUCATION**  
3, 3/0; Sp 00  
Examination and evaluation of the more influential theories of education and their effect upon education, past and present, effect of democratic, as opposed to authoritarian, concepts of the good life upon school policy and practice, nature and function of academic freedom, the public school and the religious dimension of life; importance of continuity between avowed values and actual school practices. *Elective for juniors and seniors.*

**EDF 412  
COMPARATIVE EDUCATION**  
3, 3/0; offered based on staff availability  
Education as an influence in world affairs; comparison of educational problems and their solution in various countries; relationship of education programs to the cultural heritage and its future; selection of program studies in terms of student interests and current developments. *Elective for juniors and seniors.*

## ELEMENTARY EDUCATION

**Elementary Education and  
Reading Department**  
*Maria A. Ceprano, Chair*  
Bacon Hall 302

**EDU 120  
READING AND STUDY STRATEGIES**  
3, 3/0  
A competency-based course designed to improve students' college reading and study skills. Classes include lecture and laboratory work. Students are advised to take this course based on the results of the Reading Placement Test.

**EDU 150  
ADVANCED READING  
AND STUDY STRATEGIES**  
3, 3/0  
A course designed to help students improve their strategies for effective learning. Topics include study strategies, taking notes, taking exams, time management, and preparing a research paper.

**EDU 300  
INTRODUCTION TO  
TEACHING THE URBAN CHILD**  
3, 3/0; offered based on staff availability  
An elective course offering the student an overview of the urban child, urban community, and urban school. Each area will be treated as it relates to the school curriculum. Course affords opportunity for exposure to children in urban schools, and guides appropriate career decisions. Each student will be involved in supervised field experience.

**EDU 314  
TEACHING READING AND THE  
OTHER LANGUAGE ARTS IN THE  
ELEMENTARY SCHOOL**  
6, 4/4  
*Prerequisite:* EDF 203, EDF 210, EDF 302; GPA of 2.5 or higher; junior status; must have passed the English composition and math requirement. Development of attitudes, knowledges, skills necessary to extend reading and other communication skills of elementary children; interrelationships of strands of language arts; exploration of diagnostic teaching and differentiated instruction. Experiences with children are provided in schools on a planned basis. *Required for elementary education and exceptional education majors.*



**EDU 315**  
**THE TEACHING OF SOCIAL STUDIES, SCIENCE, AND MATHEMATICS**  
6, 3/6

*Prerequisite:* EDF 203, EDF 210, EDU 314, EDF 302; GPA of 2.5, "C" or higher in EDU 314. Basic curriculum course, selecting, organizing and presenting elementary school science, mathematics, and social studies material; evaluating pupil progress; observation and elementary school participation. *Required for all elementary education and exceptional education majors seeking dual certification.*

**ECS 329**  
**TECHNIQUES AND PARTICIPATION IN EARLY CHILDHOOD**  
6, 4/4

*Prerequisite:* EDF 210 or equivalent, or consent of instructor. Overview of the learning sequence of the young child; instructional materials and procedures for program development for groups of young children, e.g., creative play, art, music, science, mathematics, and language arts experiences. Students observe, record behavior, and participate in the teaching process with children two to six years of age.

**EDU 372**  
**COMPUTER-RELATED APPLICATIONS FOR EDUCATION MAJORS**  
3, 3/0

This course is designed to introduce education majors to the field of educational technology. Students will develop a productivity portfolio that documents their competence in using word processing, databases, print merging, spreadsheets, and charting. In addition, students will learn instructional strategies for using Macintosh and IBM-compatible computer programs for presentations, small group lessons, or computer lab settings. Students will also examine the educational use of the following: telecommunications, hypermedia, scanners, digitizers, liquid crystal display, videodisc players, CD-ROM drives, and local area networks.

**EDU 400/401**  
**PRACTICUM IN TEACHING**  
12, 0/30

*Prerequisites:* Grade of "C" or higher in EDU 314 and EDU 315; GPA of 2.5 or higher in all coursework. *Successful completion of math and English competency required.* Teaching under supervision in elementary grades five days per week, individual conferences, seminars with the college supervisor; tutorial and group instruction; daily and long view planning; teacher-pupil planning; unit teaching; audio-visual aids; classroom management; record-keeping; evaluation techniques.

*Required for elementary education majors or with special permission of the chair. Elementary education extending majors and exceptional education majors are required to take EDU 404.*

**EDU 402**  
**SEMINAR IN EDUCATION**  
3, 3/0

Nature and function of a philosophy of education; study of teaching research methods and techniques; crucial issues in education; problems of beginning teachers. To be taken concurrently with or preferably subsequent to EDU 401.

*Required for all elementary education majors.*

**EDU 404**  
**PRACTICUM IN ELEMENTARY SCHOOL TEACHING**  
6, 1/30; (1/2 sem)

*Prerequisites:* Grade of "C" or higher in EDU 314 and EDU 315; GPA of 2.5 or higher in all coursework. *Successful completion of math and English competency required.* Teaching under supervision in elementary grades five days per week; individual conference and seminars with college supervisor, tutorial and group teaching; audio-visual aids; classroom management; record keeping, evaluation techniques. *Required for exceptional education extended majors seeking dual certification.*

**EDU 405**  
**PARENT-INFANT EXPERIENCE**  
3, 3/0; offered based on staff availability  
An overview of the infant period (birth to 36 months) and techniques and materials to be used with parents to facilitate infant development; innovative infant programs will be examined and practical experience with parents and infants will be provided. Elective for juniors and seniors.

**EDU 416/SED 305**  
**TEACHING READING IN SECONDARY SCHOOLS**  
3, 3/0

An analysis of the special problems in reading encountered in the secondary school. Topics to be discussed as they relate to the secondary school include: the reading process, reading skills, and techniques for assessing developing reading skills. Special emphasis placed on critical reading in the content area. *Required for secondary education majors.*

**ECS 417**  
**PARENTS AND EDUCATION**  
3, 3/0  
*Prerequisite:* ENG 101, ENG 102 or exempt, junior standing. To develop an understanding of the parental role in education and develop empathy for

parents with diverse cultural, ethnic, economic background, and parenting styles. Parent education programs and methods of conducting parent/teacher conferences are stressed.

**EDU 418**  
**MEDIA IN EDUCATION**  
3, 2/2

Audio-visual materials in teaching; audio-visual equipment; selecting, securing and using films and other materials; audio-visual programs in the school; teacher and pupil-produced materials; photography.

**EDU 419**  
**METHODS AND MATERIALS IN THE ELEMENTARY SCHOOL**  
3, 3/0; offered based on staff availability

School curriculum in the common branch subjects; selecting and presenting curriculum materials, adapting the curriculum to the varying needs, interest and abilities of the pupils; evaluating pupil progress in terms of school objectives. *Elective for juniors and seniors.*

**EDU 422**  
**INTRODUCTORY LABORATORY PRACTICUM IN READING**  
3, 2/2; offered based on staff availability

*Prerequisite:* EDU 314. *Supervised laboratory experience in tutorial work with children demonstrating mild reading disability.* The student will review available school information and/or the child's diagnostic evaluation completed in the Reading Center and structure and implement a corrective reading program. An instructional report for the parent will be prepared.

**EDU 426**  
**TEACHING READING IN THE PRIMARY GRADES**  
3, 3/0; offered based on staff availability

*Prerequisite:* EDU 314. Recognition and development of reading readiness; approaches to primary reading; methods and materials of instruction; grouping plans; development of word recognition, comprehension/interpretation, and oral reading skills; evaluation of reading, and professional growth.

**ECS 429**  
**COGNITIVE AND SOCIALIZATION PROGRAMS FOR PRE-KINDERGARTEN CHILDREN**  
3, 3/0

*Prerequisites:* EDF 210 or equivalent, EDU 329, or consent of instructor. Consideration of theories and research in cognitive development and their application in various model early childhood program. Elements of program design and assessment will be explored. Upper-division elective.

**ECS 488**  
**INTERNSHIP IN NON-SCHOOL SETTINGS**  
Credit hours vary

*Prerequisite:* Junior or senior standing, 2.5 GPA, and consent of adviser, faculty supervisor, and chair. The internship component provides opportunities for students to integrate theoretical knowledge and practical experiences in non-classroom professional settings. Students are supervised by college faculty and meet them regularly in the professional field setting and on campus.

**EDU 495**  
**PROJECT**

**EDU 499**  
**INDEPENDENT STUDY**

## ENGINEERING TECHNOLOGY

See Technology

## ENGLISH

**English Department**  
*Craig Werner, Chair*  
Ketchum Hall 326

**ENG 099**  
**DEVELOPMENTAL WRITING**  
0, 3/0; 1999-01  
An introductory course designed to reinforce sentence and paragraph structure through emphasis on unity, consistency, order, and coherence. *Does not carry credit.*

**ENG 101**  
**COLLEGE WRITING I**  
3, 3/0; 1999-01  
Reading and analysis of expository prose; writing assignments emphasize rhetorical strategies and essay structure.

**ENG 102**  
**COLLEGE WRITING II**  
3, 3/0; 1999-01  
*Prerequisite:* ENG 101 or exemption therefrom. Reading and analysis in various disciplines; writing assignments emphasize critical thinking and clear expression; introduction to research methods using multiple sources.

**ENG 110**  
**ENGLISH LITERATURE I: SELECTED TOPICS**  
3, 3/0; 1999-01 CH  
A survey of topics, themes, and authors in English literature to 1700.

**ENG 111**  
**ENGLISH LITERATURE II: SELECTED TOPICS**  
3, 3/0; 1999-01 CH  
A survey of topics, themes, and authors in English literature from 1700 to 1900.

**ENG 130**  
**BIBLICAL AND CLASSICAL LITERATURE**  
3, 3/0; 1999-01 CH  
A study of Greek, Roman, and Biblical literature.

**ENG 131**  
**MEDIEVAL AND RENAISSANCE LITERATURE**  
3, 3/0; 1999-01  
A study of major European writers prior to 1600.

**ENG 140**  
**AMERICAN LITERATURE I: SELECTED TOPICS**  
3, 3/0; 1999-01 CH  
A study of topics, themes, and authors in American literature prior to the Civil War.

**ENG 141**  
**AMERICAN LITERATURE II: SELECTED TOPICS**  
3, 3/0; 1999-01 CH  
A study of major American writers after the Civil War.

**ENG 151**  
**INTRODUCTION TO POETRY**  
3, 3/0; F 99, 00 CH  
A study of the verbal and formal techniques of English and American poetry; prosody, verse forms, conventions, genres, diction, and imagery.

**ENG 200**  
**FIELD EXPERIENCE IN SECONDARY ENGLISH EDUCATION**  
3, 3/0; 1999-01  
An introduction to the secondary school as an institution and to the teaching of English as a profession; required observations of teaching English and other areas, K-12; limited experimentation with teaching secondary English.

**ENG 205**  
**HISTORY OF CINEMA I**  
3, 3/0; offered based on staff availability CH  
A broad survey of the development of the motion picture from its earliest form in the 1890s to the inception of sound.

**ENG 206**  
**HISTORY OF CINEMA II**  
3, 3/0; F 99, 00 CH  
A survey of the development of the motion picture from the inception of sound to the present.

**ENG 230**  
**COMPARATIVE LITERATURE**  
3, 3/0; Sp 00, 01  
A study of recurring ideas, themes, and theories in world literature.

**ENG 231**  
**WOMEN IN LITERATURE: SELECTED TOPICS**  
3, 3/0; Sp 00, 01 CH  
An examination of the images of women in literature as they reflect attitudes about women and their roles. Emphasis on authors and eras varies with instructors.

**ENG 240**  
**AFRICAN-AMERICAN LITERATURE TO 1940**  
3, 3/0; F 99, 00 D  
Survey of black American slave narratives, poetry, fiction, essays, and drama, noting the influence of the African oral tradition on the black American writer. The Harlem renaissance of the 1920s and its relation to the development of black revolutionary thought is emphasized.

**ENG 241**  
**AFRICAN-AMERICAN LITERATURE SINCE 1940**  
3, 3/0; 1999-01 D  
Survey of black revolutionary thought and artistry in such writers as Richard Wright, William Demby, Ralph Ellison, LeRoi Jones, James Baldwin, Don L. Lee, Gwendolyn Brooks, Nikki Giovanni, John Henrik Clarke, and Ed Bullins.

**ENG 250**  
**LITERARY CRITICISM**  
3, 3/0; 1999-01  
An introduction to the basic questions of theoretical and practical literary criticism. Intended primarily for those students who have or are considering a major or a concentration in English.

**ENG 252**  
**TWENTIETH CENTURY LITERATURE I**  
3, 3/0; F 99, 00 CH  
A study of literature in English from 1900 to 1945.

**ENG 253**  
**TWENTIETH CENTURY LITERATURE II**  
3, 3/0; Sp 00, 01 CH  
A study of literature in English from 1945 to the present.

**ENG 260**  
**CHILDREN'S LITERATURE**  
3, 3/0; 1999-01  
*Prerequisite:* Sophomore, junior, or senior standing. A study of the types of children's literature with attention to the principles of book selection and reading interests of children.

**ENG 280**  
**AMERICAN FOLKLORE**  
3, 3/0; F 99, 00  
An introduction to American folklore and its uses.

**ENG 300**  
**WRITING FOR THE PROFESSIONS**  
3, 3/0; 1999-01  
*Prerequisite:* Fulfillment of the freshman writing requirement. Practice for students who wish to improve their competence in writing and editing for a variety of professions.

**ENG 301**  
**ADVANCED COMPOSITION**  
3, 3/0; 1999-01  
*Prerequisite:* Fulfillment of the freshman writing requirement. Practice in writing expository papers; writing assignments emphasize stylistic strategies, diction, and revision.

**ENG 303**  
**LITERATURE IN THE FILM**  
3, 3/0; offered based on staff availability  
A study of the motion picture as a vehicle for literature. Analysis and composition of the verbal and pictorial forms.

**ENG 304**  
**FORMS OF THE FILM**  
3, 3/0; Sp 00, 01  
A study of breadth and depth of selected film forms. Emphasis on the film as art, medium of communication, and social document. May be taken for credit more than once where content is different.

**ENG 305**  
**CREATIVE WRITING: NARRATIVE**  
3, 3/0; 1999-01  
*Prerequisite:* Fulfillment of freshman writing requirement; sophomore standing. A course emphasizing the writing of narrative.

**ENG 306**  
**CREATIVE WRITING: POETRY**  
3, 3/0; 1999-01  
*Prerequisite:* Fulfillment of freshman writing requirement; sophomore standing. A course emphasizing the writing of poetry.

**ENG 309**  
**TEACHING AND EVALUATING WRITING**  
3, 3/0; 1999-01  
*Prerequisite:* Fulfillment of the freshman writing requirement. Methods for teaching and evaluating writing including theories of composition and rhetoric, approaches to teaching composition, ways to respond to writing-in-progress and completed texts, methods of measuring growth, and means to evaluate writing performance.

**ENG 310**  
**MODERN EUROPEAN LITERATURE**  
3, 3/0; Sp 00, 01  
A study of major European writers after 1600.

**ENG 311**  
**TEACHING LANGUAGE**  
3, 3/0; 1999-01  
English language teaching strategies for secondary education majors, including grammar, usage, and mechanics instruction. Topics include the history of English, the right to one's own language, discussions of correctness within a range of discourse levels, and instruction in family literacy practices.

**ENG 315**  
**SHAKESPEARE I**  
3, 3/0; F 99, 00  
*Prerequisite:* Sophomore standing or three credits of literature. A study of the earlier comedies, tragedies, and histories.

**ENG 316**  
**SHAKESPEARE II**  
3, 3/0; Sp 00, 01  
*Prerequisite:* Sophomore standing or three credits of literature. A study of the later comedies, tragedies, and histories.

**ENG 330**  
**LITERATURE OF THE BIBLE**  
3, 3/0; Sp 00, 01 CH  
*Prerequisite:* Sophomore standing or three credits of literature. A study of the Bible as literature.

**ENG/FRE 331**  
**FRENCH LITERATURE IN TRANSLATION**  
3, 3/0; see FRE for offerings  
*Prerequisite:* A literature course at the college level or consent of instructor. A study of selected masterpieces of contemporary French literature in translation. Knowledge of French not required. *Open to French majors only upon approval of both department chair and course instructor.*

**ENG 332**  
**RUSSIAN LITERATURE IN TRANSLATION**  
3, 3/0; offered based on staff availability  
*Prerequisite:* A literature course at the college level or consent of instructor. A study of writers such as Gogol, Pushkin, Turgenev, Goncharov, Tolstoy, Dostoevsky, and Chekhov. Knowledge of Russian not required.



**ENG 341  
MODERN HEBREW  
LITERATURE IN TRANSLATION**  
3, 3/0; offered based  
on staff availability

A study of Israeli literature today, its background and influences. Poetry and fiction translated from the Hebrew.

**ENG 345  
WORLD LITERATURE AFTER 1945**  
3, 3/0; 1999-01 G  
Post-World War II literature around the globe. A study of poetry and fiction along with the cultural background of at least two continents per semester.

**ENG 350  
TWENTIETH CENTURY DRAMA I**  
3, 3/0; offered based  
on staff availability  
*Prerequisite:* *Sophomore standing or three hours of literature.* A study of drama from the 1880s until the end of World War II of such playwrights as Ibsen, Strindberg, Chekhov, Lorca, Synge, O'Casey, and O'Neill.

**ENG 351  
TWENTIETH CENTURY DRAMA II**  
3, 3/0; offered based  
on staff availability  
*Prerequisite:* *Sophomore standing or three credits of literature.* A study of drama since World War II. Includes epic theater, absurdism, and theater of cruelty of such playwrights as Brecht, Ionesco, Beckett, Genet, Miller, Albee, Pinter, Baraka, and Arrabal.

**ENG 354  
ETHNIC-AMERICAN MINORITY  
LITERATURE**  
3, 3/0; 1999-01 D  
A study of the background, development, and contemporary contribution of ethnic-American minority literature (folk, poetry, short story, novel, biography, and plays) and individual authors. A study of the literary characteristics of the literature, its contribution to the field of American literature, and its place in today's society.

**ENG 355  
THE SHORT STORY**  
3, 3/0; 1999-01 CH  
*Prerequisite:* *Sophomore standing or three credits of literature.* A study of major writers in the development of short fiction; may include stories of writers from Poe or Gogol to Pirandello, Joyce, Faulkner, Camus, Malamud, Boill, Sillitoe, or W.M. Kelley.

**ENG 356  
FUTURISTIC FICTION**  
3, 3/0; offered based  
on staff availability  
*Prerequisite:* *Sophomore standing or three credits of literature.* A study of the background, development, and present status of futuristic fiction. Short story and novel forms. A study of

the quality of the literature and its place in today's society.

**ENG 357  
COMEDY**  
3, 3/0; offered based  
on staff availability  
*Prerequisite:* *Sophomore standing or three credits of literature.* An exploration of the nature and forms of comedy in stage and television drama, poetry, fiction, jokes, and life situations. Relationship to respective cultures and periods from Aristophanes into the 1970s.

**ENG 360  
REALISTIC FICTION FOR  
CHILDREN**  
3, 3/0; offered based  
on staff availability  
*Prerequisite:* *ENG 260 or consent of instructor.* A study of the literary characteristics, recurring themes, significant authors, and major categories of realistic fiction for children. Students will read and discuss classic and contemporary realism, and illustrations in realistic fiction will be viewed and evaluated in terms of relationship to literary elements.

**ENG 361  
CONTEMPORARY LITERATURE**  
3, 3/0; F 99, 00 CH  
The reading, discussing, and analyzing of literature written in the last 25 years. Presentation of literary features and literary theories.

**ENG 377  
INTRODUCTION TO SEMANTICS**  
3, 3/0; Sp 00, 01  
An analysis of the relations between words and meaning, cognition and language, culture and connotation. Review of classic and contemporary semantic theories.

**ENG 402  
ADVANCED CREATIVE  
WRITING: NARRATIVE**  
3, 3/0; offered based  
on staff availability  
*Prerequisite:* *ENG 305, publication of fiction, or consent of instructor.* A creative workshop for students who wish to attempt longer forms of narrative than the short story.

**ENG 403  
ADVANCED CREATIVE WRITING:  
POETRY**  
3, 3/0; offered based  
on staff availability  
*Prerequisite:* *ENG 306 or consent of instructor.* A creative workshop for students experienced and/or talented in the writing of poetry.

**ENG 404  
STUDIES IN CINEMA**  
3, 3/0; offered based  
on staff availability  
*Prerequisite:* *Minimum of one lower-*

*level film course or consent of instructor.* May be taken more than once where content is different. An analytical, in-depth study of a film genre, performer, director, or period.

**ENG 411  
CHAUCER**  
3, 3/0; offered based  
on staff availability  
*Prerequisite:* *Six credits of literature.* A study of representative works of Geoffrey Chaucer.

**ENG 413  
MILTON**  
3, 3/0; offered based  
on staff availability  
*Prerequisite:* *Six credits of literature.* A study of representative works of John Milton.

**ENG 415  
SEVENTEENTH CENTURY  
ENGLISH LITERATURE**  
3, 3/0; F 99, Sp 01  
*Prerequisite:* *Six credits of literature.* A study of the literature of 17th-century England.

**ENG 416  
EIGHTEENTH CENTURY  
ENGLISH LITERATURE**  
3, 3/0; F 00  
*Prerequisite:* *Six credits of literature.* A study of the literature of 18th-century England.

**ENG 417  
ENGLISH NOVEL TO 1800**  
3, 3/0; Sp 00  
*Prerequisite:* *Six credits of literature.* A study of the English novel prior to 1800.

**ENG 418  
ENGLISH NOVEL 1800-1900**  
3, 3/0; Sp 00  
*Prerequisite:* *Six credits of literature.* A study of representative 19th-century English novels.

**ENG 419  
ROMANTIC MOVEMENT  
IN ENGLISH LITERATURE**  
3, 3/0; F 00  
*Prerequisite:* *Six credits of literature.* A study of English Romantic writers.

**ENG 420  
EARLY VICTORIAN LITERATURE**  
3, 3/0; F 99  
*Prerequisite:* *Six credits of literature.* A study of English writers, 1832-1859.

**ENG 421  
LATER VICTORIAN LITERATURE**  
3, 3/0; Sp 01  
*Prerequisite:* *Six credits of literature.* A study of English writers, 1859-1914.

**ENG 422  
JAMES JOYCE AND HIS  
CONTEMPORARIES**  
3, 3/0; offered based  
on staff availability  
*Prerequisite:* *Six credits of literature.* A study of the major fiction of James Joyce; supplemental readings in other writers of the period.

**ENG 441  
ROMANTIC MOVEMENT IN  
AMERICAN LITERATURE**  
3, 3/0; F 99, 00  
*Prerequisite:* *Six credits of literature.* A study of American Romantic writers.

**ENG 442  
AMERICAN NOVEL TO 1900**  
3, 3/0; F 99, 00  
*Prerequisite:* *Six credits of literature.* A study of the nineteenth-century American novel.

**ENG 443  
AMERICAN POETRY AFTER 1900**  
3, 3/0; Sp 00, 01  
*Prerequisite:* *Six credits of literature.* This course will explore the rich and diverse terrain of American poetry of the twentieth century from a historical perspective. Major figures and major movements, and the interrelationships among them, will be explored.

**ENG 444  
THE AMERICAN NOVEL AFTER  
1900**  
3, 3/0; Sp 00, 01  
*Prerequisite:* *Six credits of literature.* An exploration of representative American novels after 1900. Major modes of American fiction and the relationships among them and historical, social, and artistic developments of the twentieth century will be discussed. Possible topics for the course include the realist, modernist, naturalist, or postmodernist novel; working class novels; the domestic novel, the psychological novel; the historical novel.

**ENG 450  
STUDIES IN POETRY**  
3, 3/0; offered based  
on staff availability  
*Prerequisite:* *Six credits of literature.* A study of a particular aspect of poetry: theme, motif, philosophy, concept, or literary movement in English, American, or world literature. May be taken more than once where content is different.

**ENG 451  
STUDIES IN FICTION**  
3, 3/0; offered based  
on staff availability  
*Prerequisite:* *Six credits of literature.* An analysis of selected aspects of the novel, novella, or short story: theme, motif, concept, or movement in English, American, or world literature. May be taken more than once where content is different.

**ENG 452  
STUDIES IN DRAMA**  
3, 3/0; offered based  
on staff availability  
*Prerequisite:* *Six credits of literature.* A study of particular aspects of drama: theme, motif, philosophic content, or literary movement in English, American, or world literature. May be taken more than once where content is different.

**ENG 454  
TWENTIETH-CENTURY NOVEL I**  
3, 3/0; F 99, 00  
*Prerequisite:* *Six credits of literature.* A study of major British and/or American novels from 1914-1945.

**ENG 455  
TWENTIETH-CENTURY NOVEL II**  
3, 3/0; Sp 00, 01  
*Prerequisite:* *Six credits of literature.* A study of major British and American novels from 1945 to the present.

**ENG 461  
YOUNG ADULT LITERATURE**  
3, 3/0; 1999-01  
*Prerequisite:* *Six credits of literature.* A study of literature appropriate to students in grades 7-12.

**ENG 462  
METHODS AND MATERIALS  
IN TEACHING SECONDARY  
SCHOOL ENGLISH**  
3, 3/0; 1999-01  
*Prerequisites:* *ENG 470, EDF 303, ENG 200, and minimum GPA of 2.0.* A study of secondary school curriculum materials and methods of instruction. Only open to juniors and seniors majoring in secondary English or elementary majors seeking certification in English; to be taken the semester before student teaching.

**ENG 464  
STUDENT TEACHING IN  
MIDDLE SCHOOL/JUNIOR  
HIGH SCHOOL ENGLISH**  
6, 0/30; 1999-01  
*Prerequisites:* *Completion of ENG 462 with minimum grade of "C." GPA minimum of 2.0; 2.5 in professional education courses with no grade below "C."* Full-time practice teaching, five days per week, for seven weeks in a middle school/junior high school situation. College supervision bi-weekly. Elementary extension students teach one situation.  
*Required for juniors and seniors in secondary English and elementary extension students.*

**ENG 465  
STUDENT TEACHING IN SENIOR  
HIGH SCHOOL ENGLISH**  
6, 0/30; 1999-01  
*Prerequisite:* *Completion of ENG 462 with minimum grade of "C." GPA minimum of 2.0; 2.5 in professional education courses with no grade*

*below "C."* Full-time practice teaching, five days per week for seven weeks in a senior high school situation. College supervision bi-weekly.  
*Required for juniors and seniors in secondary English.*

**ENG 470  
FOUNDATIONS OF LANGUAGE**  
3, 3/0; 1999-01  
A study of the structure of language with emphasis on English, relation to speech and to writing; language families and their relationships; language change, significance of regional and social dialects.

**ENG 472  
ENGLISH GRAMMARS**  
3, 3/0; offered based on  
staff availability  
*Prerequisite:* *ENG 470.* A study of different approaches to the analysis of the English language; brief history of the development of the English language; historical survey of the study of language; detailed study of the contemporary scientific approaches to the study of English.

**ENG 476  
NON-VERBAL COMMUNICATION**  
3, 3/0; offered based  
on staff availability  
*Prerequisite:* *Six credits of English.* A study of the history and development of non-verbal communication and communication systems including grimaces, gestures, posture, tone of voice.

**ENG 490  
ENGLISH SEMINAR**  
3, 3/0; 1999-01  
*Prerequisite:* *Six credits of English.* A study of specific writers, genre, period, theme, etc. May be taken more than once where content is different.

**ENG 495  
PROJECT**

**ENG 499  
INDEPENDENT STUDY**

## EXCEPTIONAL EDUCATION

**Exceptional Education  
Department**  
Sarita C. Samora, Interim Chair  
Ketchum Hall 202

**EXE 100  
NATURE AND NEEDS OF  
INDIVIDUALS WITH SPECIAL  
NEEDS**  
3, 3/0; DCT  
The study of individuals who are exceptional due to factors of intelligence, physical development,

behavior, and sensory abilities. The course examines the causes, characteristics, and implications—educational, social, and vocational—of individuals who deviate from the average or normal.  
*Required for all exceptional education majors.*

**EXE 245  
COMMUNITY SERVICE  
WITH INDIVIDUALS WITH  
SPECIAL NEEDS**  
1-3, 1-3/2-6/3-9  
Service in community agencies with individuals who are exceptional. May be taken for one, two, or three credits. Three credit hours required for majors in exceptional education.

**EXE 306  
BEHAVIOR MANAGEMENT**  
3, 3/1 CT  
*Prerequisite:* *EXE 100.* Reviews various procedures and strategies for managing behavior of students in special education settings. The course focuses on the prevention of undesirable classroom behavior, the assessment and remediation of behavioral problems, and the effective delivery of instruction. Students are required to complete a project in an approved educational setting.  
*Required for all exceptional education majors.*

**EXE 314  
PSYCHOLOGY OF INDIVIDUALS  
WITH SPECIAL NEEDS**  
3, 3/0 CT  
Examination of behavioral trends common to various types of exceptionality; description, analysis, examination of educational implications.

**EXE 320  
EDUCATIONAL EVALUATION  
FOR SPECIAL EDUCATION**  
3, 3/1  
*Prerequisite:* *EXE 100.* Introduction to the educational assessment of students with disabilities. Models, issues, basic terminology and practice, interpreting scores, testing and test construction are included.  
*Required for all exceptional education majors.*

**EXE 330  
INDIVIDUALS WITH  
MILD DISABILITIES**  
3, 3/0  
*Prerequisite:* *EXE 100.* This course provides in-depth consideration of the history, causes, personal and social factors, and needs of individuals with mild disabilities.  
*Required for all exceptional education majors.*

**EXE 331  
INDIVIDUALS WITH MODERATE/  
SEVERE/MULTIPLE DISABILITIES**  
3, 3/0  
*Prerequisite:* *EXE 100.* This course provides in-depth consideration of the history, causes, personal and social factors, and needs of individuals with moderate and severe disabilities.  
*Required for all exceptional education majors.*

**EXE 340  
CURRICULUM FOR INDIVIDUALS  
WITH MILD DISABILITIES**  
3, 3/1  
*Prerequisites:* *EXE 306, EXE 330.* Basic curricular practices; procedures in developing, implementing, and revising programs for students with mild disabilities.  
*Required for all exceptional education majors.*

**EXE 341  
CURRICULUM FOR  
INDIVIDUALS WITH MODERATE/  
SEVERE/MULTIPLE  
DISABILITIES**  
3, 3/1  
*Prerequisites:* *EXE 306, EXE 331.* Curriculum methods, materials, and problems in educating students with moderate, severe, or multiple disabilities in public school classes, residential settings, vocational programs, and other service programs.  
*Required for juniors and seniors in exceptional education.*

**EXE 385  
OBSERVATION AND  
PARTICIPATION IN  
SPECIAL EDUCATION**  
6, 2/12  
*Prerequisite:* *Minimum GPA of 2.5; EXE 320; EXE 340; EXE 341, EDU 315.* Observation, classroom participation, selection, organization, presentation of curriculum material at different grade levels; evaluation of pupil progress in classes for students with disabling conditions.  
*Required for juniors and seniors in exceptional education.*

**EXE 420  
PRACTICUM IN SPECIAL  
EDUCATION**  
6, 1/2 semester  
*Prerequisite:* *Minimum grade of "C" in EXE 385. Minimum overall GPA of 2.5. Minimum cumulative GPA of 2.5 in the major.* Practice teaching with students with learning and behavior disorders, mental retardation, and/or physical and neurological disabilities in public school classes, private agencies, or residential settings.  
*Required for seniors in exceptional education.*

**EXE 495  
PROJECT**

**EXE 499  
INDEPENDENT STUDY**



## FASHION AND TEXTILE TECHNOLOGY

### Nutrition, Hospitality, and Fashion Department

*Suk Y. Ob, Chair*  
Caudell Hall 107

Note: Students may be responsible for some minor expenses associated with some courses. Changes in semester offerings possible. Consult the department or schedule of courses, published each semester, for details.

#### FTT 107 SURVEY OF THE FASHION AND TEXTILE INDUSTRY 3, 3/0; 1999-01 CT

This is a survey course of the textile and fashion industry that will give students an overview of the product development process: design, terminology, industrial construction processes, and quality of the finished product as well as career opportunities in the field.

**FTT 108  
FASHION FUNDAMENTALS**  
3, 2/2; F 99, 00  
Students will develop techniques of apparel construction using commercially available patterns. Instruction includes introductory information about sewing equipment, fabric selection, fit alterations, as well as appropriate selection of garment based on design principles. Evaluation of garments completed as assignments will be related to comparable apparel that is available through retail sources.

**FTT 109  
DESIGN ROOM TECHNIQUES**  
3, 2/2; F 99  
*Prerequisite: FTT 108 or consent of instructor.* Course focuses on design room techniques utilized in both couture and mass production of apparel. Emphasis will be placed on alteration techniques used to achieve proper fitting garments, and mastery of selected couture and industrial construction processes.

**FTT 150  
INTRODUCTION TO FASHION MERCHANDISING**  
3, 3/0; 1999-01 CT  
An introduction to the business of fashion merchandising including basic market structure, operational patterns, occupational roles, and future trends.

**FTT 206  
INTRODUCTION TO TEXTILES**  
3, 3/0; 1999-01 CT  
An introduction to the care, selection and use of textile products. This course is appropriate for majors and non-majors with little or no background in chemistry. The course includes the study of fibers, yarns, fabric construction, color application, and finishes in relation to fabric behavior, fabric maintenance, and fabric performance. It will serve as an introductory course to the other departmental textile offerings, FTT 336 and FTT 449.

**FTT 208  
VISUAL DESIGN FOR THE FASHION INDUSTRY**  
3, 2/2  
*Prerequisites: FTT 108 and FTT 206.* Emphasis of the course will be placed on the development of the aesthetic aspects of apparel design and visual display. Focus will be on the application of design elements and principles to the apparel/fashion industry.

**FTT 250  
FASHION BUYING AND MERCHANDISING PRINCIPLES**  
3, 3/0; F 99, 00  
*Prerequisites: FTT 107 and FTT 150.* Course provides students with marketing skills specific to fashion merchandising. Market segmentation, qualitative and quantitative fashion merchandising objectives and techniques used for buying and controlling fashion inventories will be explored. Students will be introduced to computer applications.

**FTT 303/THA 303  
FASHION ILLUSTRATION**  
3, 3/0; F 99, 00  
*Prerequisite: FTT 108 or consent of instructor.* Student is provided the opportunity for building foundation skills in fashion illustration. The fashion figure, poses, garment and fabric sketching are covered. The student illustrates a garment collection for professional portfolio development. Basic fashion illustration is an essential foundation skill for computerized fashion/textile design and product development which currently represent an emerging employment field in the apparel/textile industry.

**FTT 304  
PRINT RENDERING FOR INDUSTRY**  
3, 3/0; F 99, 00  
This course is an introduction to apparel/home furnishing textile print design for industry. Emphasis will be in four areas: the development of basic understanding of the apparel/home furnishing market; the mastery of design skills specific to textile print design for industry; layout techniques, and industry practices.

**FTT 310  
FUNDAMENTALS OF APPAREL PRODUCTION**  
3, 3/0; F 99, 00  
*Prerequisites: FTT 107 or FTT 108, FTT 206 and FTT 310, or consent of instructor.* Fundamentals of Apparel Production provides students with an overview of the apparel industry. It includes a study of the structure and organization of the industry as well as the design sources, techniques of pattern development, selection of raw materials, manufacturing processes, and quality specifications of the finished product.

**FTT 325  
DRAFTING AND GRADING TECHNIQUES IN APPAREL DESIGN**  
3, 2/2; Sp 00, 01  
*Prerequisites: FTT 108 and FTT 109 or consent of instructor.* An introduction to technical patternmaking skills. Emphasis will be placed on the development of basic drafting and grading skills. Students will produce a drafted sloper that will be graded into a graded nest.

**FTT 326  
APPAREL DESIGN I: FLAT PATTERN**  
3, 2/2; F 99, 00  
*Prerequisites: FTT 108, FTT 109, FTT 325 or consent of instructor.* An introduction to the flat pattern method of pattern making. Emphasis will be placed on the design and completion of selected items of apparel developed from a master pattern.

**FTT 327  
APPAREL DESIGN II: COMPUTERIZED PATTERNMAKING**  
3, 2/2; Sp 00, 01  
*Prerequisite: FTT 326.* Student is provided the opportunity for advanced apparel design via manual and computerized flat pattern experiences. Emphasis will be placed on the development of an apparel line using the Gerber PDS system.

**FTT 328  
APPAREL DESIGN III: DRAPING**  
3, 2/2; Sp 00, 01  
*Prerequisite: FTT 327 or consent of instructor.* Apparel design using the draping technique is a pattern-making method that is visual and aesthetic. Emphasis is on the creation of basic garment patterns via draping method. Experience with the manipulation of a two-dimensional fabric to cover three-dimensional forms using a variety of fabrics to achieve individualized designs.

**FTT 330  
CLOTHING FOR THE DISABLED**  
3, 2/2; Sp 00  
*Prerequisite: FTT 108, FTT 109, or consent of instructor.* An introduction to clothing needs of the physically and developmentally disabled. Emphasis

will be placed on an understanding of the clothing needs of this special population and clothing solutions. Students will design and produce a functional and fashionable line of clothing for selected clients.

**FTT 336  
TEXTILE EVALUATION**  
3, 2/2; 1999-01  
*Prerequisite: FTT 206.* This is an advanced-level course in textiles which is designed to provide an understanding of fabric performance evaluation. Emphasis is on the standard test methods, equipment, and techniques used in determining selected physical and aesthetic properties of textile products. These properties are used by the textile/apparel industry to determine the appropriateness of textiles for end use in textile products.

**FTT 340  
INTRODUCTION TO FASHION MERCHANDISING**  
3, 3/0 CT  
An introduction to fashion merchandising including basic market structure, operational patterns, and occupational roles.

**FTT 347  
CLOTHING IN RELATION TO HUMAN BEHAVIOR**  
3, 3/0; Sp 01  
An exploration of the cultural, communicative, sociological, and psychological functions of dress as they relate to human behavior. Topics include the cultural universalities and diversities of dress, the interpretation of the communicative language of clothing, psychological clothing needs of the life cycle, clothing needs of the disabled, and contemporary issues related to dress.

**FTT 348  
HISTORY OF COSTUME**  
3, 3/0; Sp 99  
The study of the development of Western dress from the earliest periods in history to the present. Emphasis will be placed on the societal influences that drove fashion style changes. Consideration of the impact of other cultures on this development and on modern dress.

**FTT 350  
FASHION MERCHANDISING APPLICATIONS**  
3, 3/0; F 99, 00  
*Prerequisites: FTT 150 and FTT 250.* Fashion merchandising applications increase students' proficiency in manual and computer calculation of mathematical formulas and forms as used by typical fashion retailers and the identification of pricing and inventory control problems unique to apparel merchandising and investigation of solutions. Specific solutions to problems in fashion buying and merchandising are explored.

**FTT 357  
CONTEMPORARY FASHION ANALYSIS**  
3, 3/0  
*Prerequisites: FTT 108, junior standing, or consent of instructor.* Analysis of fashion theory and designers' influence on fashion trends. Students will examine current fashion trends, the forecasting process and become familiar with designers and fashion terminology. Development of forecasting skills and personal fashion philosophy will be pursued.

**FTT 358  
APPAREL/TEXTILE FORECASTING AND PROMOTION**  
3, 3/0; F 99, 00  
*Prerequisite: FTT 107 or FTT 108.* Course focuses on the analysis of current trends in apparel and textiles which then can be used in the forecasting of future trends. The course also covers various methods of apparel promotion used both at the wholesale and retail levels such as visual merchandising, press kits, storyboards and functions of the fashion office.

**FTT 410  
ADVANCED APPAREL PRODUCTION**  
3, 3/0; Sp 00, 01  
*Prerequisite: FTT 310.* This advanced apparel production course provides students the opportunity to study the principles and practices of sourcing raw materials and the costing of finished garments and to become familiar with the types of production systems and sequence of construction operations used to produce selected items of apparel.

**FTT 411  
CAM: APPAREL MANUFACTURING**  
3, 2/2; 1999-01  
*Prerequisites: FTT 107 or FTT 108, and FTT 310.* Computer-aided manufacturing simulates the production of industrial apparel patterns for the ready-to-wear market. Emphasis is placed on computer-aided grading, pattern plotting, and marker making.

**FTT 412  
CAD: APPAREL AND TEXTILE DESIGN FOR INDUSTRY**  
3, 2/2; 1999-01  
*Prerequisites: FTT 107 or FTT 108, FTT 206 and FTT 310.* This course is an introduction to computerized fashion/textile design. Emphasis will be in three areas: the development of basic understanding and design skills on the Info Design/Vision system; the translation of previously acquired technical and aesthetic design skills into a new media-industrialized computer design; and portfolio development for professional development.

**FTT 413  
CAD: WEAVE FOR INDUSTRY**  
3, 2/2; Sp 00, 01  
*Prerequisites: FTT 107 or FTT 108, DES 240 and FTT 310.* Course is an introduction to CAD Weave apparel/home furnishings textile design. Emphasis will be in three areas: the research, development, and understanding of a line/collection and target market for wovens; the translation of aesthetic weaving design skills into a new media-industrialized computer design on the Info Design/Vision Weave system; and portfolio development.

**FTT 425  
CLOTHING DESIGN THROUGH TAILORING**  
3, 2/2  
*Prerequisites: FTT 108 and FTT 109.* Selection, design, fitting, and construction techniques pertaining to traditional and contemporary tailoring.

**FTT 434  
PRINCIPLES AND PRACTICES IN FASHION BUYING AND MERCHANDISING**  
3, 3/0  
*Prerequisites: FTT 340 and BUS 117.* Principles and practices in fashion buying provides students with marketing skills specific to fashion buying. Market segmentation, fashion merchandising objectives, and techniques used for buying and controlling fashion inventories will be explored.

**FTT 448  
HISTORY OF WESTERN DRESS**  
3, 3/0  
Survey of western dress from earliest period of time to the present with emphasis on the societal influences that evoke changes and the recurrence of fashion trends.

**FTT 449  
HISTORY OF TEXTILES**  
3, 3/0; Sp 00  
*Prerequisites: FTT 206 and upper division status, or consent of instructor.* The study of textiles throughout history teaches the beginning of trade and cultural interaction throughout the world. The time period will include from the beginning of history up to the middle of the 20th century. Relationships between technological, agricultural and cultural developments will be related to the development of textiles. The historic use of fibers, yarns, fabric construction, color application, and finishes will be studied in relation to different historical periods and geographical areas of the world. Writing assignments will be completed in several projects to fulfill the writing intensive requirements for the course.

**FTT 450  
ISSUES IN TEXTILE AND APPAREL INDUSTRY**  
3, 3/0; Sp 00, 01  
*Prerequisites: FTT 206, FTT 310, and FTT 336.* This course integrates the concentrations in the Fashion and Textile Technology Program to give an overview of the global issues facing the textile and apparel industry in the present time. Differing methods of organization and their inherent structural characteristics, including the national and international scope of the industry, will be related to textiles, merchandising, and apparel manufacturing companies. The contemporary issues confronting the American textile and apparel industry will be discussed including: governmental controls, global trade policies, and labor issues.

**FTT 451  
SENIOR PROJECT**  
3, 3/0; Sp 00  
*Prerequisites: Upper-division status and consent of instructor.* Culminating experience taken by senior-level students after completion of all prerequisites. Projects will vary from year to year but will provide students the opportunity to integrate all previous academic experiences. Projects include the design, production, and marketing of an apparel line.

**FTT 452  
FASHION SHOW PRODUCTION**  
3, 2/2; Sp 01  
Planning and production of a fashion promotion event. Students will utilize their fashion skills to participate in individual and group activities leading to the presentation of a major fashion show.

**FTT 488  
INTERNSHIP/FIELD EXPERIENCE**  
**Variable credit (up to 6)**  
*Prerequisites: Upper-division status and consent of instructor. Student must have at least a 2.75 GPA and background within the area of interest to be considered for this experience.* Course provides an opportunity to integrate technical knowledge with practical experience in institutions, business and educational organizations, social and/or governmental agencies. Includes supervised field participation, meetings with instructor, and written or other assignments. May be taken for maximum of six credits.

#### FTT 495 PROJECT

#### FTT 499 INDEPENDENT STUDY

## FINE ARTS

### Fine Arts Department

*Sylvia Bakos, Chair*  
Upton Hall 502

All studio courses in fine arts require at least three hours per week of outside preparation in addition to the regular class meetings.

*Note:* Students are expected to assume the costs of materials they use in their courses. All studio courses may have an additional instructional charge for materials used in class.

#### FAR 100 INTRODUCTION TO FINE ARTS

3, 0/6; 1999-01 CA  
A study of the critical bases for procedures in the fine arts; introductory problems in studio performance. Lecture and studio experience.  
*Note: For non-art majors only.*

**FAR 101  
DRAWING I**  
3, 0/6; 1999-01 CA  
Fundamentals of drawing based primarily on the study and representation of objects and nature forms, with problems of analysis, composition, and structure in various media; involves lecture and studio experience.

**FAR 102  
DRAWING II**  
3, 0/6; 1999-01  
*Prerequisite: FAR 101.* Drawing from the nude using various media with an emphasis on proportion anatomy and pictorial structure; involves lecture and studio experience.

**FAR 103  
MODELING**  
3, 0/6; 1999-01  
Modeling as an introductory experience in the exploration of three-dimensional form; development of perceptual and analytical attitudes; involves lectures and modeled work dealing with the human figure; for B.E.A. first-year students only.

**FAR 210  
INTRODUCTORY PAINTING**  
3, 0/6; 1999-01 CA  
*Prerequisite: FAR 101.* An introduction to the methods, techniques, standards, and values of painting; exploration of color, form, and compositional problems; includes lecture and studio experiences.

**FAR 220  
INTRODUCTORY PHOTOGRAPHY**  
3, 0/6; 1999-01 CA  
*Prerequisite: FAR 101.* Basic technique; camera use, film development, enlarging, print finishing, and



presentation. Emphasis will be placed concurrently upon image and technique to produce personal expressive images; includes lecture and studio experiences.

*Note: 35mm camera with meter and full manual controls required.*

**FAR 230**  
**INTRODUCTORY PRINTMAKING**  
3, 0/6; 1999-01 CA  
*Prerequisite: FAR 101.* An introduction to printmaking and its basic processes and techniques, involving demonstrations, lectures, and studio experiences in one or more areas such as intaglio, lithography, and relief.

**FAR 240**  
**INTRODUCTORY SCULPTURE**  
3, 0/6; 1999-01 CA  
*Prerequisite: FAR 101.* Introduction to the fundamentals of sculptural form; exploration of additive, subtractive, and constructive approaches to sculpture through lecture and studio experiences.

**FAR 250**  
**ART HISTORY I**  
3, 3/0; 1999-01 CA  
The history of painting, sculpture, architecture, and the related arts from the Prehistoric times through the Gothic period.

**FAR 251**  
**ART HISTORY II**  
3, 3/0; 1999-01 CA  
The history of painting, sculpture, architecture, and the related arts from the Renaissance to the modern period in Europe and the United States.

**FAR 300**  
**DRAWING III**  
3-6 (3 hrs/sem), 0/6; 1999-01  
*Prerequisite: FAR 102.* A continuation of FAR 102 with an emphasis on surface anatomy and pictorial structure; includes lecture and studio experience. Course may be repeated two times.

**FAR 311**  
**INTERMEDIATE PAINTING I**  
3, 0/6; 1999-01  
*Prerequisite: FAR 210.* A continuation of the problems dealt with in introductory painting, working toward a greater awareness of a personal statement; includes lecture and studio experience.

**FAR 312**  
**INTERMEDIATE PAINTING II**  
3, 0/6; 1999-01  
*Prerequisite: FAR 311.* A continuation of the problems dealt with in the first two painting courses, allowing the opportunity for more thorough fundamental awareness at a more intense concentration; includes lecture and studio experience.

**FAR 313**  
**ADVANCED PAINTING**  
3-9 (3 hrs/sem), 0/6; 1999-01  
*Prerequisite: FAR 312.* Advanced painting, with media, style, and content based on individual needs; concentration on individually selected areas of painting; includes lectures and studio experience. Course may be repeated three times.

**FAR 316**  
**PAINTING IN SIENA**  
3, 0/6; 1999-01  
*Prerequisite: For art credit: FAR 210; for non-art credit: none.* An upper-level course in painting taught in Siena, Italy. Students will work at the level of their experience and in the materials and techniques currently available in Siena.

**FAR 321**  
**INTERMEDIATE PHOTOGRAPHY I**  
3, 0/6; 1999-01  
*Prerequisite: FAR 220.* A continuation of introductory photography with more in-depth studies; concurrent emphasis on technique and image to produce personal, expressive, and significant images; includes lecture, field, and studio experience.  
*Note: 35mm camera with meter and full manual controls required; tripod, band meter, and flash desirable.*

**FAR 322**  
**INTERMEDIATE PHOTOGRAPHY II**  
3, 0/6; 1999-01  
*Prerequisite: FAR 321.* An advanced course in the photographic disciplines, stressing the individual, expressive, and creative approach to the making of significant photographic images. Includes lecture, field, and studio experiences.  
*Note: 35mm camera with meter and full manual controls, tripod, flash, band meter required.*

**FAR 323**  
**ADVANCED PHOTOGRAPHY**  
3-9 (3 hrs/sem), 0/6; 1999-01  
*Prerequisite: FAR 322.* An advanced course in which individual directions and advanced photographic concerns may be explored; includes lecture, field and studio experience. Course may be repeated three times.

**FAR 325**  
**HISTORY OF PHOTOGRAPHY**  
3, 3/0; F 99, 01  
Photography: its invention and development from early nineteenth century to present. Uses of photography as art, as science, as communication, and as an influence upon social patterns and customs.

**FAR 327**  
**NON-SILVER PHOTOGRAPHIC PROCESSES**  
3, 0/6  
*Prerequisite: FAR 220.* An investigation of light-sensitive, non-silver photo-

graphic processes. Areas covered will be cyanotype, Vandyke brown, casein, and gum bichromate. Students will be given instruction in the basic processes, then individually assigned problems. Papers, fabrics, and other working materials and supplies will be provided by the student.

**FAR 328**  
**STUDIO PHOTOGRAPHY**  
3, 0/6; offered based on staff availability  
*Prerequisites: FAR 220 and portfolio evaluation.* An introduction to current studio practices used to produce still photographs for commercial and other uses. Medium format camera, view camera, and studio lighting techniques are taught. Making directed and fabricated photographic images is stressed. The student should have a professional quality camera, hand-held light meter, and tripod.

**FAR 331**  
**INTERMEDIATE PRINTMAKING I**  
3, 0/6; 1999-01  
*Prerequisite: FAR 230.* A continuation of the problems dealt with in introductory printmaking; emphasis on personal expression and creative possibilities; includes lecture, demonstrations, and studio experience.

**FAR 332**  
**INTERMEDIATE PRINTMAKING II**  
3, 0/6; 1999-01  
*Prerequisite: FAR 331.* A continued exploration of printmaking with emphasis on personal expression and creative possibilities; includes lecture, demonstrations, and studio experience.

**FAR 333**  
**ADVANCED PRINTMAKING**  
3-9 (3 hrs/sem), 0/6; 1999-01  
*Prerequisites: FAR 331 and FAR 332.* Advanced printmaking, media determined by the student in consultation with the instructor; includes lectures and studio experiences. Course may be repeated three times.

**FAR 335**  
**PAPERMAKING**  
3-9 (3 hrs/sem), 0/6; 1999-01  
*Prerequisite: Any studio experience in fine arts or design.* The theory and practice of handmade papermaking involving demonstrations, lectures, and studio experience.  
*Note: Required for B.E.A. printmaking majors (0165).*

**FAR 341**  
**INTERMEDIATE SCULPTURE I**  
3, 0/6; 1999-01  
*Prerequisite: FAR 240.* A further exploration of sculptural form with a more complete study of the numerous sculptural approaches and techniques; practice in planning and executing sculpture projects.

**FAR 342**  
**INTERMEDIATE SCULPTURE II**  
3, 0/6; 1999-01  
*Prerequisite: FAR 341.* A continuation of intermediate sculpture I with further emphasis on exploration of the variations within each technique and approach; development of personal modes of expression.

**FAR 343**  
**ADVANCED SCULPTURE**  
3-9 (3 hrs/sem), 0/6; 1999-01  
*Prerequisite: FAR 342.* Concentration on individually selected areas of development in sculpture based on personal interests, needs, and experience. Course may be repeated three times.

**FAR 345**  
**FIGURE MODELING**  
3, 0/6; 1999-01  
*Prerequisite: FAR 240.* Figure modeling as a basic sculptural discipline; portrayal and interpretation of the human form; includes anatomy lectures and work from the live model.

**FAR 346**  
**SCULPTURE IN SIENA**  
3, 0/6; 1999-01  
*Prerequisite: For art credit: FAR 240; for non-art credit: none.* An upper-level course in sculpture taught in Siena, Italy. Students will work at the level of their experience and in the materials and techniques currently available in Siena.

**FAR 354**  
**GREEK ART**  
3, 3/0; offered based on staff availability  
*Prerequisites: FAR 250 and FAR 251.* A concentrated study of the architecture, painting, and sculpture of ancient Greece from Minoan and Mycenaean ages to the end of the Hellenistic period.  
*Required for art history majors.*

**FAR 355**  
**ETRUSCAN AND ROMAN ART**  
3, 3/0; offered based on staff availability  
*Prerequisites: FAR 250 and FAR 251.* A concentrated study of the architecture, painting, and sculpture of the Etruscan civilization and of the Roman Republic and Empire. Special emphasis will be given to Roman sculpture and architecture of the Republican and Imperial periods.

**FAR 356**  
**EARLY MEDIEVAL ART**  
3, 3/0; offered based on staff availability  
*Prerequisites: FAR 250 and FAR 251.* A concentrated study of the art and architecture of Western Europe in relation to the arts of the classical world and Byzantium from the sixth through the eleventh centuries, emphasizing historical and religious meaning

of art, architecture, manuscript, illumination, and jeweled arts of the period. Illustrated lectures, extra class assignments.

**FAR 357**  
**GOTHIC ART**  
3, 3/0; offered based on staff availability  
*Prerequisites: FAR 250 and FAR 251.* A comprehensive study of architecture, sculpture, painting, and the decorative arts of the Gothic era from the rise of the new aesthetic, through its international development to its culmination, from Abbot Suger and the Abbey Church of St. Denis to the Henry VII Chapel at Westminster Abbey.  
*Required for art history majors.*

**FAR 358**  
**EARLY RENAISSANCE ART IN ITALY**  
3, 3/0; offered based on staff availability  
*Prerequisites: FAR 250 and FAR 251, except in Siena.* Survey of painting, sculpture, and architecture of fifteenth-century Italy. Special attention to Donatello, Brunelleschi, and Alberti. Consideration will be given to important earlier artists and movements as well as to the aesthetic implications of the rebirth of classical tradition in western civilization.

**FAR 359**  
**HIGH RENAISSANCE AND MANNERISM**  
3, 3/0; offered based on staff availability  
*Prerequisites: FAR 250 and FAR 251.* Survey of Italian art and architecture in the sixteenth century. Special attention to Bramante, Leonardo, Raphael, and Michelangelo, and the emergence of Mannerism.

**FAR 360**  
**LATE GOthic AND RENAISSANCE ART**  
3, 3/0; offered based on staff availability  
*Prerequisites: FAR 250 and FAR 251.* A concentrated study of the artistic production, including illuminated manuscripts, in the Netherlands, France, Germany, and England, from the late fourteenth through the early sixteenth centuries.

**FAR 361**  
**ITALIAN BAROQUE ART**  
3, 3/0; offered based on staff availability  
*Prerequisites: FAR 250 and FAR 251.* A concentrated study of the architecture, sculpture, and painting in Italy during the seventeenth and eighteenth centuries. Emphasis will be placed on key centers such as Rome, Venice, Turin, and Naples.

**FAR 362**  
**NINETEENTH-CENTURY ART**  
3, 3/0; 1999-01  
*Prerequisites: FAR 250 and FAR 251.* A concentrated study of architecture from neo-classicism of the Adam Brothers to the skyscraper; painting from David to Cezanne in France, the Nazarenes and Pre-Raphaelites in Germany and England; sculpture from Houdon and Canova to Rodin, in relationship to the social, political, economic, and intellectual climate of the times.

**FAR 363**  
**TWENTIETH-CENTURY ART**  
3, 3/0; 1999-01  
*Prerequisites: FAR 250 and FAR 251.* A study of the major trends and works of the twentieth century, with an emphasis on historical, artistic, judgmental, and cultural meanings as they reflect the twentieth century and past civilizations; includes painting, sculpture, architecture, and other areas.

**FAR 365**  
**AMERICAN ART I**  
3, 3/0; offered based on staff availability  
*Prerequisites: FAR 250 and FAR 251.* A comprehensive study of architecture, painting, and sculpture in the United States from the seventeenth century to World War I.

**FAR 367**  
**BAROQUE OF NORTHERN EUROPE**  
3, 3/0; offered based on staff availability  
*Prerequisites: FAR 250 and FAR 251.* A concentrated study of the architecture, sculpture, and painting in northern Europe during the seventeenth and eighteenth centuries. Major emphasis will be placed on development in France, Holland, and Germany.

**FAR 368**  
**OTTONIAN AND ROMANESQUE ART**  
3, 3/0; offered based on staff availability  
*Prerequisites: FAR 250 and FAR 251.* A comprehensive study of architecture, sculpture, painting, and the decorative arts of Europe from the origins of a Romanesque style in the eleventh century through its culmination in the late twelfth century, from the era of the Bayeux Tapestry and the churches of Pilgrimage Road to the age of Abbot Suger.

**FAR 372**  
**MASTERWORKS OF ARCHITECTURE**  
3, 3/0; offered based on staff availability  
An introduction to masterworks of architecture, emphasizing architecture as a living organism. Buildings selected from various periods, cultures; styles

from early civilization to the present day, including places of worship and interment, public and commercial structures, and private residences.

**FAR 400**  
**DRAWING IV**  
3-6 (3 hrs/sem), 0/6; 1999-01  
*Prerequisite: FAR 300.* Advanced drawing with media and content based upon individual needs. Concentration on individually selected areas of development in drawing; use of model; lecture and studio experiences included. Course may be repeated two times.

**FAR 410**  
**SENIOR STUDIO IN PAINTING**  
6, 0/12; 1999-01  
*Prerequisite: FAR 313.* A six-credit-hour concentration of studio work by the senior major in painting; the student will plan and execute a series of problems and projects in consultation with major adviser.  
*B.E.A. painting majors only.*

**FAR 420**  
**SENIOR STUDIO IN PHOTOGRAPHY**  
6, 0/12; 1999-01  
*Prerequisite: FAR 323.* A six-credit-hour concentration of studio work by the senior major in photography; the student will plan and execute a series of problems and projects in consultation with major adviser.  
*B.E.A. photography majors only.*

**FAR 430**  
**SENIOR STUDIO IN PRINTMAKING**  
6, 0/12; 1999-01  
*Prerequisite: FAR 333.* A six-credit-hour concentration of studio work by the senior major in printmaking; the student will plan and execute a series of problems and projects in consultation with major adviser.  
*B.E.A. printmaking majors only.*

**FAR 440**  
**SENIOR STUDIO IN SCULPTURE**  
6, 1/12; 1999-01  
*Prerequisite: FAR 343.* A six-credit-hour concentration of studio work by the senior major in sculpture; the student will plan and execute a series of problems and projects in consultation with major adviser.  
*B.E.A. sculpture majors only.*

**FAR 469**  
**ART AND ARCHITECTURE IN SIENA**  
3, 3/0  
A first-hand study of Gothic and Renaissance art in Siena. In addition to classroom lectures, visits will be made to the city's major monuments and collections.

**FAR 470**  
**SENIOR SEMINAR IN FINE ARTS**  
3, 3/0; 1999-01  
*Prerequisite: FAR 313, FAR 323, FAR*

*333, or FAR 343.* A final evaluative process regarded as a culminating experience in the program; discussions and lectures in major areas; theory and significance of selected problems; a critical analysis of the student's work resulting in the preparation of a professional portfolio.  
*B.E.A. majors only.*

**FAR 488**  
**INTERNSHIP**

**FAR 495**  
**PROJECT**

**FAR 499**  
**INDEPENDENT STUDY**

## FOREIGN LANGUAGE

**Foreign Language Department**  
*Lucy M. Schwartz, Chair*  
Bishop Hall 122

**Foreign Language Requirement**  
Students in B.A. degree programs must demonstrate proficiency in a foreign language equivalent to the successful completion of the first two years of college-level study (101 through 202 levels). Students in B.S. in education degree programs must demonstrate proficiency in a foreign language equivalent to the first year of college-level study (101 and 102). Successful completion of language study through high school level 4 satisfies the requirement for B.A. students; the requirement is satisfied for B.S. in education students by the completion of high school level 2. Transfer students may apply courses successfully completed at other institutions toward fulfillment of the requirement.

A year of high school study is generally the equivalent of one semester at Buffalo State. Students who wish to continue to study a language begun in high school may register for the next course in the sequence or take a placement test administered by the Foreign Language Department.

Foreign Language courses numbered 201 and 202 carry upper-division credit and may be applied toward fulfillment of the 45-credit upper-division requirement.

**FLA 346**  
**WOMEN IN FOREIGN LITERATURE**  
3, 3/0  
*Prerequisite: Basic literature course or consent of instructor.* French women writers from the Middle Ages to the present with an emphasis on George Sand, Simone de Beauvoir, and Marguerite Duras. An analysis of



women writers from Spain, Latin America, and the United States. Portrayals of German-speaking women from the medieval epic writings to the post-unification era. In English.

**FLA 461**  
**LANGUAGE TEACHING WORKSHOP**  
3, 3/0

*Prerequisites:* Mastery of language to be taught and consent of instructor. A course in foreign language teaching at the college level; includes practice in techniques for teaching listening, speaking, reading, and writing skills. Student has responsibilities in small and/or large group instruction.

**FLA 462**  
**LANGUAGE TEACHING WORKSHOP**  
3, 3/0

*Prerequisites:* Mastery of language to be taught and consent of instructor. Continuation of FLA 461.

**FLA 495**  
**PROJECT**  
1-3; offered based on staff availability  
*Prerequisite:* Consent of instructor.

**FLA 499**  
**INDEPENDENT STUDY**  
3; offered based on staff availability  
*Prerequisite:* Consent of instructor.

<b>SEE ALSO:</b>	
<b>CLASSICS</b>	<b>GREEK</b>
<b>FOREIGN LANGUAGE EDUCATION</b>	<b>ITALIAN</b>
<b>FRENCH</b>	<b>LATIN</b>
<b>GERMAN</b>	<b>SPANISH</b>
	<b>SWAHILI</b>

## Foreign Language Education

**FLE/SED 200**  
**FIELD EXPERIENCE IN FOREIGN LANGUAGE EDUCATION**  
3, 6/0; 1999-01  
*Prerequisites:* Sophomore standing; completion of 302 in language of specialization; GPA of 2.5 or above in language of specialization, or GOOD on MLA scale; proficiency in English (FSL-3); consent of foreign language education coordinator. Ninety clock hours in a middle, junior high, or senior high school in observation and participation of various types. Conducted by school and college staff.

**FLE/SED 405**  
**METHODS AND MATERIALS FOR TEACHING FOREIGN LANGUAGES IN THE SECONDARY SCHOOLS**  
3, 3/0; F 99, 00  
*Prerequisites:* FLE/SED 200 (or taken concurrently), EDF/SED 303, EDF/SED 403, and consent of coordinator of foreign language edu-

cation. Introduction to the elements of a foreign language curriculum. Selecting, organizing, and presenting material; designing classroom activities; evaluating student progress; teacher-pupil relationships. Students in Foreign Language teacher certification programs should take this course immediately before FLE 407-FLE 408.

**FLE/SED 406**  
**TECHNIQUES FOR TEACHING AND EVALUATING FOREIGN LANGUAGES IN MIDDLE AND SECONDARY SCHOOLS**  
3, 3/0; F 99, 00  
*Prerequisites:* FLE/SED 200 (or taken concurrently), EDF/SED 303, EDF/SED 403, and consent of coordinator of foreign language education. Development of the student's skill in teaching and testing foreign languages, with special emphasis on applying a communicative syllabus to middle and secondary school language programs.

**FLE/SED 407**  
**STUDENT TEACHING OF FOREIGN LANGUAGES IN THE MIDDLE/JUNIOR HIGH SCHOOL**  
6, 0/30; 1999-01  
*Prerequisites:* Minimum GPA of 2.5 for all requirements in language of specialization and in professional education; minimum grade of "C" in FLE 405 and FLE 406; consent of coordinator of foreign language education. Teaching under supervision in a middle school or junior high school five days a week, with additional participation in school program. Evaluation by college and school personnel.

**FLE/SED 408**  
**STUDENT TEACHING OF FOREIGN LANGUAGES IN THE HIGH SCHOOL**  
6, 0/30; 1999-01  
*Prerequisites:* Minimum GPA of 2.5 for all requirements in language of specialization and in professional education; minimum grade of "C" in FLE 405 and FLE 406; consent of coordinator of foreign language education. Teaching under supervision in a senior high school five days per week, with additional participation in school program. Evaluation by college and school personnel.

## Classics

See also: Greek, Latin

**FLA 337**  
**GREEK AND ROMAN MYTHOLOGY**  
3, 3/0; 1999-01 CH  
*Prerequisite:* A literature course at the college level or consent of instructor. The stories of the gods, goddesses, and heroes of Greece and Rome as presented in Greek and Roman literature, with emphasis upon determining the

possible origins and meaning of the myths studied.

**FLA 338**  
**INTRODUCTION TO CLASSICAL GREEK DRAMA**  
3, 3/0; Sp 01  
*Prerequisite:* A literature course at the college level or consent of instructor. Study and discussion of selected ancient Greek plays in modern translations, with emphasis upon their uniqueness as cultural documents and their enduring quality as drama. Characteristics of Greek drama, the ancient theater, and theatrical conventions.

## French

**FRE 101**  
**BEGINNING FRENCH I**  
3, 3/0; 1999-01 CH  
Fundamentals of French with emphasis on the spoken and written language.

**FRE 102**  
**BEGINNING FRENCH II**  
3, 3/0; 1999-01 CH  
*Prerequisite:* FRE 101 or equivalent. Continuation of FRE 101.

**FRE 110**  
**ACCELERATED BEGINNING FRENCH**  
6, 6/0; F 00 CH  
This course covers the material normally studied in FRE 101 and FRE 102 and is designed for those who have had two or three years of French in high school and who feel the need to practice the basic patterns and structures of French.

**FRE 201**  
**INTERMEDIATE FRENCH I**  
3, 3/0; 1999-01, upper-level credit  
*Prerequisite:* FRE 102 or equivalent. Further development of the basic skills with emphasis on reading and writing.

**FRE 202**  
**INTERMEDIATE FRENCH II**  
3, 3/0; 1999-01, upper-level credit  
*Prerequisite:* FRE 201 or equivalent. Continuation of FRE 201.

**FRE 210**  
**ACCELERATED INTERMEDIATE FRENCH**  
3, 3/0; Sp 01, upper-level credit  
*Prerequisites:* FRE 110 or FRE 102 or equivalent. This course covers the material normally studied in FRE 201 and FRE 202 and is designed for those who have more than three years of French in high school and who feel the need of an intensive practice in speaking and writing in the target language.

**FRE 301**  
**FRENCH CONVERSATION AND COMPOSITION**  
3, 3/0; F 99, 00  
*Prerequisite:* FRE 202 or equivalent. Practice in spoken and written French.

**FRE 302**  
**FRENCH CONVERSATION AND COMPOSITION**  
3, 3/0; Sp 00, 01  
*Prerequisite:* FRE 202 or equivalent. Practice in spoken and written French.

**FRE 303**  
**TRANSLATION**  
3, 3/0; Sp 00  
*Prerequisites:* FRE 301 and FRE 302. Study of problem words, idiomatic expressions, and contrastive English/French, French/English structures. Intensive work in translation of authentic texts from English to French and French to English.

**FRE 305**  
**SPOKEN FRENCH**  
3, 3/0; F 99  
*Prerequisites:* FRE 301 and FRE 302, or consent of instructor. Introduction to French phonetics and applied linguistics.

**FRE 306**  
**THE CIVILIZATION OF FRANCE**  
3, 3/0; F 99  
*Prerequisite:* FRE 301 or FRE 302 or consent of instructor. Survey of French civilization, its economic, social, and cultural aspects based on a review of the history of France.

**FRE 307**  
**SURVEY OF FRENCH LITERATURE**  
3, 3/0; Sp 00  
*Prerequisite:* FRE 301 or FRE 302 or consent of instructor. The Middle Ages through the Renaissance.

**FRE 308**  
**SURVEY OF FRENCH LITERATURE**  
3, 3/0  
*Prerequisite:* FRE 301 or FRE 302 or consent of instructor. Classicism and the Enlightenment.

**FRE 309**  
**SURVEY OF NINETEENTH- AND TWENTIETH-CENTURY FRENCH LITERATURE**  
3, 3/0  
*Prerequisite:* FRE 301 or FRE 302 or consent of instructor. Introduction to representative works from a variety of genres. From Romanticism to contemporary writing.

**FRE/ENG 331**  
**FRENCH LITERATURE IN TRANSLATION**  
3, 3/0; F 00 CH  
*Prerequisite:* A literature course at the college level or consent of instructor. Selected masterpieces of contemporary French literature in

translation. Knowledge of French not required.  
*Open to French majors and minors only upon approval of both the department chair and the course instructor.*

**FRE 341**  
**FRANCOPHONE LITERATURE IN TRANSLATION**  
3, 3/0 G  
*Prerequisite:* A literature course at the college level or consent of instructor. Study of aspects of the Francophone world (French-speaking Europe, North America, Africa, and the Caribbean) with particular emphasis on historical, political, economic, and social changes that have occurred as a result of the colonial, neo-colonial, and anti-colonial periods.  
*Open to French majors and minors only upon approval of both the department chair and the course instructor.*

**FRE 411**  
**STUDIES IN FRENCH POETRY**  
3, 3/0  
*Prerequisites:* FRE 307, FRE 308 or FRE 309, or consent of instructor. A study of one or several of the major periods of French and Francophone poetry from the Middle Ages to the present. The course will include a historical introduction, a discussion of French-language poetry as a literary form and the detailed analysis of representative authors and works. May be limited to one historical period. May be repeated once when content is different.

**FRE 412**  
**STUDIES IN THE FRENCH NOVEL**  
3, 3/0; F 00  
*Prerequisite:* FRE 307, FRE 308, or FRE 309, or consent of instructor. A study of one or several of the major periods of French and Francophone novels from the Middle Ages to the present. The course will include a historical introduction, a discussion of the French-language novel as a literary form and the detailed analysis of representative authors and works. May be limited to one historical period. May be repeated once when content is different.

**FRE 413**  
**STUDIES IN FRENCH THEATER**  
3, 3/0  
A study of one or several of the major periods of French and Francophone theater from the Middle Ages to the present. The course will include a historical introduction, a discussion of French-language theater as a literary form and the detailed analysis of representative authors and works. May be limited to one historical period. May be repeated once when content is different.

**FRE 415**  
**ADVANCED GRAMMAR AND COMPOSITION**  
3, 3/0; Sp 00  
*Prerequisites:* FRE 301-FRE 302 or consent of instructor. Systematic study of advanced topics of French grammar with work in French composition.

**FRE 416**  
**ADVANCED CONVERSATION AND COMPOSITION**  
3, 3/0  
*Prerequisites:* FRE 301-FRE 302 or consent of instructor. Advanced conversation dealing with contemporary French civilization and institutions. Recommended for secondary education majors.

**FRE 417**  
**BUSINESS FRENCH**  
3, 3/0; F 99  
*Prerequisites:* FRE 301-FRE 302. A study of areas of the French business world to develop competency in French commercial language. Practice in translating and writing business communiques.

**FRE 496**  
**SEMINAR I**  
3, 3/0  
*Prerequisite:* Consent of instructor. Topic to be chosen by the instructor.

**FRE 497**  
**SEMINAR II**  
3, 3/0; Sp 01  
*Prerequisite:* Consent of instructor. Topic to be chosen by the instructor.

## German

**GER 101**  
**BEGINNING GERMAN I**  
3, 3/0; 1999-01 CH  
Fundamentals of German with emphasis on the spoken and written language.

**GER 102**  
**BEGINNING GERMAN II**  
3, 3/0; 1999-01 CH  
*Prerequisite:* GER 101 or equivalent. Continuation of GER 101.

**GER 201**  
**INTERMEDIATE GERMAN I**  
3, 3/0; 1999-01, upper-level credit  
*Prerequisite:* GER 102 or equivalent. Further development of the basic skills with emphasis on reading and writing.

**GER 202**  
**INTERMEDIATE GERMAN II**  
3, 3/0; 1999-01, upper-level credit  
*Prerequisite:* GER 201 or equivalent. Continuation of GER 201.

**GER 301**  
**GERMAN CONVERSATION AND COMPOSITION**  
3, 3/0; F 99, 00  
*Prerequisite:* GER 202 or equivalent. Practice in written and spoken German with emphasis on the spoken language.

**GER 302**  
**GERMAN CONVERSATION AND COMPOSITION**  
3, 3/0; Sp 00, 01  
*Prerequisite:* GER 202 or equivalent. Practice in spoken and written German with emphasis on the written language.

**GER 306**  
**GERMAN CIVILIZATION**  
3, 3/0  
*Prerequisite:* GER 202 or consent of instructor. Study of the growth of German civilization, with emphasis on the artistic and intellectual contributions to the Western world.

**GER 307**  
**HISTORY OF GERMAN LITERATURE I**  
3, 3/0  
*Prerequisite:* GER 202 or consent of instructor. Readings of representative selections of major authors from the Middle Ages to the eighteenth century.

**GER 308**  
**HISTORY OF GERMAN LITERATURE II**  
3, 3/0  
*Prerequisite:* GER 202 or consent of instructor. Reading of representative selections from the major authors of the Classical period and the nineteenth and twentieth centuries.

**GER 337**  
**MODERN GERMAN LITERATURE IN TRANSLATION**  
3, 3/0 CH  
A study of the various literary trends, ideas, and techniques of modern German literature as manifested in the selected works of major German literary figures.  
*Open to German minors only upon approval of both the department chair and the course instructor.*

**GER 338**  
**GERMAN FILM AND RELATED LITERATURE IN TRANSLATION**  
3, 3/0  
Survey of the main artistic phases of the German cinema and its relationship with literature (primarily drama and narrative) from the Weimar period to contemporary times. The films have subtitles, and the instruction is in English.  
*Open to German minors only upon approval of both the department chair and the course instructor.*

**GER 339**  
**MODERN GERMAN CULTURE**  
3, 3/0  
Survey of modern German-speaking cultures from 1871 to the present with emphasis on the Weimar period, the Third Reich, the Postwar, and recent developments. The reading and instruction are in English.  
*Open to German minors only upon approval of both the department chair and the course instructor.*

**GER 401**  
**TWENTIETH-CENTURY GERMAN LITERATURE**  
3, 3/0  
*Prerequisite:* GER 202 or consent of instructor. A study of the chief literary trends and the major authors of German literature in the twentieth century.

## Greek

See also: Classics

**GRK 101**  
**BEGINNING NEW TESTAMENT GREEK (KOINE) I**  
3, 3/0; F 00 CH  
Fundamental of Koine Greek with emphasis on reading.

**GRK 102**  
**BEGINNING NEW TESTAMENT GREEK (KOINE) II**  
3, 3/0; Sp 01 CH  
*Prerequisite:* GRK 101 or equivalent. Continuation of GRK 101.

## Italian

**FLA 210**  
**ITALIAN-AMERICANS: LITERATURE AND SOCIETY**  
3, 3/0  
The Italian experience in the United States as seen through works of fiction and non-fiction. Reading and instruction are in English.  
*Open to Italian majors and minors only upon approval of both the department chair and the course instructor.*

**ITA 101**  
**BEGINNING ITALIAN I**  
3, 3/0; 1999-01 CH  
Fundamentals of Italian with emphasis on the spoken and written language.

**ITA 102**  
**BEGINNING ITALIAN II**  
3, 3/0; 1999-01 CH  
*Prerequisite:* ITA 101 or equivalent. Continuation of ITA 101.

**ITA 201**  
**INTERMEDIATE ITALIAN I**  
3, 3/0; 1999-01, upper-level credit  
*Prerequisite:* ITA 102 or equivalent. Further development of the basic skills with emphasis on reading and writing.



**ITA 202**  
**INTERMEDIATE ITALIAN II**  
3, 3/0; 1999-01, upper-level credit  
*Prerequisite:* ITA 201 or equivalent.  
Continuation of ITA 201.

**ITA 301**  
**ITALIAN CONVERSATION AND COMPOSITION**  
3, 3/0; 1999-01  
*Prerequisite:* ITA 202 or equivalent.  
Practice in written and spoken Italian.

**ITA 302**  
**ITALIAN CONVERSATION AND COMPOSITION**  
3, 3/0; 1999-01  
*Prerequisite:* ITA 202 or equivalent.  
Practice in written and spoken Italian.

**ITA 306**  
**CONTEMPORARY ITALIAN CIVILIZATION**  
3, 3/0  
*Prerequisite:* None, if offered in English; if offered in Italian, the prerequisite is ITA 202 or equivalent. An examination of cultural, intellectual, and social developments in Italy, past and present. To be offered in English or Italian as noted in master schedule. When offered in English, this course may not be applied to the Italian minor.

**ITA 307**  
**SURVEY OF ITALIAN LITERATURE**  
3, 3/0  
*Prerequisite:* ITA 202 or equivalent.  
Readings and discussion of major works from the origins through the Cinquecento.

**ITA 308**  
**SURVEY OF ITALIAN LITERATURE**  
3, 3/0  
*Prerequisite:* ITA 202 or equivalent.  
Readings and discussion of major works from the Seicento through the Ottocento.

**ITA 336**  
**MODERN ITALIAN LITERATURE IN TRANSLATION**  
3, 3/0 CH  
Major writers and cultural movements since Italian unification.  
*Open to Italian majors and minors only upon approval of both the department chair and the course instructor.*

**ITA 401**  
**DANTE'S DIVINA COMMEDIA**  
3, 3/0  
*Prerequisite:* An upper-division Italian course or consent of instructor. Study of selected cantos as an introduction to Dante's work and times.

**ITA 406**  
**NINETEENTH-CENTURY ITALIAN LITERATURE**  
3, 3/0  
*Prerequisite:* An upper-division Italian course or consent of instructor.  
Readings and discussions of representative works of poetry and novels.

**ITA 410**  
**MODERN ITALIAN LITERATURE**  
3, 3/0  
*Prerequisite:* An upper-division Italian course or consent of instructor.  
Readings and discussions of representative novels and short stories of the twentieth century.

**ITA 450**  
**DIRECTED READINGS I**  
3, 3/0  
*Prerequisite:* Consent of instructor.  
Variable topics.

**ITA 451**  
**DIRECTED READINGS II**  
3, 3/0  
*Prerequisite:* Consent of instructor.  
Variable topics.

## Latin

See also: Classics

**LAT 101**  
**BEGINNING LATIN I**  
3, 3/0; F 99, 00 CH  
Fundamentals of the Latin language with emphasis on reading.

**LAT 102**  
**BEGINNING LATIN II**  
3, 3/0; Sp 00, 01 CH  
*Prerequisite:* LAT 101 or equivalent.  
Continuation of LAT 101.

**LAT 201**  
**INTERMEDIATE LATIN I**  
3, 3/0; F 99, 00, upper-level credit  
*Prerequisite:* LAT 102 or equivalent.  
Further development of reading and writing ability, with continuing emphasis on the comprehension of the written language.

**LAT 202**  
**INTERMEDIATE LATIN II**  
3, 3/0; Sp 00, 01, upper-level credit  
*Prerequisite:* LAT 201 or equivalent.  
Continuation of LAT 201.

## Spanish

**SPA 101**  
**BEGINNING SPANISH I**  
3, 3/0; 1999-01 CH  
Fundamentals of Spanish with emphasis on the spoken and written language.

**SPA 102**  
**BEGINNING SPANISH II**  
3, 3/0; 1999-01 CH  
*Prerequisite:* SPA 101 or equivalent.  
Continuation of SPA 101.

**SPA 201**  
**INTERMEDIATE SPANISH I**  
3, 3/0; 1999-01, upper-level credit  
*Prerequisite:* SPA 102 or equivalent.  
Further development of basic skills with emphasis on reading and writing.

**SPA 202**  
**INTERMEDIATE SPANISH II**  
3, 3/0; 1999-01, upper-level credit  
*Prerequisite:* SPA 201 or equivalent.  
Continuation of SPA 201.

**SPA 300**  
**THE CIVILIZATION OF LATIN AMERICA**  
3, 3/0 G  
Taught in English; not open to Spanish majors or minors. A consideration of the culture of the Latin American people. A focus on their achievements, customs and way of life as affected by geographic, historical, political, and economic factors.

**SPA 301**  
**SPANISH CONVERSATION AND COMPOSITION**  
3, 3/0  
*Prerequisite:* SPA 202 or equivalent.  
Practice in spoken and written Spanish with emphasis on the written language.

**SPA 302**  
**SPANISH CONVERSATION AND COMPOSITION**  
3, 3/0  
*Prerequisite:* SPA 202 or equivalent.  
Practice in spoken and written Spanish with emphasis on the spoken language.

**SPA 305**  
**SPANISH PHONETICS**  
3, 3/0; F 99, 00  
*Prerequisites:* SPA 301-SPA 302 or equivalent. An analysis of the speech sounds of Spanish. A consideration of comprehension and pronunciation difficulties caused by differences in the sound systems of English and Spanish. Exercises aimed at improvement of pronunciation and intonation.

**SPA 306**  
**THE CIVILIZATION OF SPAIN**  
3, 3/0; F 99, 00  
*Prerequisite:* SPA 301 or SPA 302 or consent of instructor. A consideration of the culture of the Spanish people. A focus on their achievements, customs, and way of life as affected by geographic, historical, political, and economic factors.

**SPA 307**  
**SURVEY OF SPANISH LITERATURE**  
3, 3/0; F 99, 00  
*Prerequisite:* SPA 301 or SPA 302, or consent of instructor. The Middle Ages through the Golden Age.

**SPA 308**  
**SURVEY OF SPANISH LITERATURE**  
3, 3/0; Sp 00, 01  
*Prerequisite:* SPA 301 or SPA 302, or consent of instructor. The eighteenth century to the present.

**SPA 309**  
**THE CIVILIZATION OF LATIN AMERICA**  
3, 3/0; F 99, 00 G  
*Prerequisite:* SPA 301 or SPA 302 or consent of instructor. A consideration of the culture of the Latin American people. A focus on their achievements, customs, and way of life as affected by geographic, historical, political, and economic factors.

**SPA 310**  
**SURVEY OF SPANISH-AMERICAN LITERATURE**  
3, 3/0; F 99, 00  
*Prerequisite:* SPA 301 or SPA 302 or consent of instructor. The Colonial period through Romanticism.

**SPA 311**  
**SURVEY OF SPANISH-AMERICAN LITERATURE**  
3, 3/0; Sp 00, 01  
*Prerequisite:* SPA 301 or SPA 302 or consent of instructor. Realism to the present.

**SPA 317**  
**BUSINESS SPANISH**  
3, 3/0; F 00  
*Prerequisite:* SPA 301 or SPA 302 or equivalent. An introduction to Spanish commercial language. Extensive practice in translating and composing Spanish business communiques.

**SPA 405**  
**OLD SPANISH**  
3, 3/0; Sp 00  
*Prerequisite:* SPA 305 or consent of instructor. The development of Spanish from the Middle Ages to the fifteenth century, including study of the earliest documents in Spanish. Lectures, readings, and student reports.

**SPA 408**  
**TWENTIETH-CENTURY SPANISH LITERATURE**  
3, 3/0; F 99  
*Prerequisite:* SPA 308 or consent of instructor. A study in the appreciation, analysis, and criticism of the major trends in the development of Spanish poetry and theater of the twentieth century.

**SPA 411**  
**SPANISH-AMERICAN LITERATURE OF THE NINETEENTH AND TWENTIETH CENTURIES: NOVEL, SHORT STORY, AND ESSAY**  
3, 3/0; Sp 01  
*Prerequisite:* SPA 310, SPA 311, or consent of instructor. Study of the major trends in these genres in the context of the cultural diversity of the hemisphere.

**SPA 415**  
**ADVANCED GRAMMAR AND COMPOSITION**  
3, 3/0; Sp 00, 01  
*Prerequisites:* SPA 301-SPA 302 or consent of instructor. Elements of stylistics and selected grammar topics. Special attention given to common errors of English speakers.

**SPA 421**  
**STRUCTURE OF MODERN SPANISH**  
3, 3/0  
*Prerequisite:* SPA 305 or consent of instructor. An analysis of the principles of modern Spanish from a linguistic perspective. A study of Spanish phonology, morphology, and syntax.

**SPA 496**  
**SEMINAR I**  
3, 3/0; F  
*Prerequisite:* Consent of instructor.  
Topic to be chosen by the instructor.

**SPA 497**  
**SEMINAR II**  
3, 3/0; Sp  
*Prerequisite:* Consent of instructor.  
Topic to be chosen by the instructor.

## Swahili

**SWA/AAS 101**  
**BEGINNING SWAHILI I**  
3, 3/0; F 99, 00 CH  
A study of the fundamentals of Swahili with emphasis on the spoken and written language.

**SWA/AAS 102**  
**BEGINNING SWAHILI II**  
3, 3/0; Sp 00, 01 CH  
*Prerequisite:* SWA/AAS 101 or consent of instructor. Continuation of SWA/AAS 101.

**SWA/AAS 201**  
**INTERMEDIATE SWAHILI I**  
3, 3/0; F 99, 00, upper-level credit  
*Prerequisite:* SWA/AAS 102 or consent of instructor. Further development of the basic skills, with emphasis on reading and writing.

**SWA/AAS 202**  
**INTERMEDIATE SWAHILI II**  
3, 3/0; Sp 00, 01, upper-level credit  
*Prerequisite:* SWA/AAS 201 or consent of instructor. Continuation of SWA 201.

## GENERAL STUDIES

**Interdisciplinary Unit**  
*Margaret A. Shaw, Coordinator*  
Lifelong Learning  
Twin Rise 100

**AEL 300W**  
**ASSESSMENT OF EXPERIENTIAL LEARNING**  
3, 3/0  
*Prerequisite:* Consent of instructor.  
For matriculated students only. Designed for students who consider their previous learning experiences as college-level creditable. Students will analyze those experiences which may qualify for college credit and prepare a portfolio to inventory college-level learning gained through experience outside of college. Not for final semester students.

**GSS 100**  
**ADULTS AND LEARNING**  
1, 1/10  
This course focuses upon issues central to adults returning to college: the nature of participation in adult learning, adult learning theory, and the vital role adult education plays in a rapidly changing technological and global society. This course is primarily for first-time or returning adult students.

## GEOGRAPHY

**Geography and Planning Department**  
*Raymond W. Waxmonsky, Chair*  
Classroom Building A213

**GEG 101**  
**WORLD NATURAL ENVIRONMENTS**  
3, 3/0; 1999-01 GCS  
Nature of geography; earth-sun relationship; maps and map interpretation; and classification, distribution, and origins of the major elements of the natural environment: weather, climates, soils, natural vegetation, and landforms. *Required for geography majors and urban-regional analysis and planning majors.*

**GEG 102**  
**MAN'S CULTURAL ENVIRONMENT**  
3, 3/0; 1999-01 GCS  
Introduction to cultural geography and the cultural landscape. An examination of the distribution of value systems, ethnicity, religion, language, population, and politics as indices of human variety; an introduction to evolution of human variety; an introduction to evo-

lution of rural and urban socioeconomic patterns.  
*Required for geography majors.*

**GEG 107**  
**RESOURCES AND MAN**  
3, 3/0; 1999-01 CS  
A geographical analysis of man's use and misuse of natural resources; air, water, soils, vegetation, animal life, minerals, and energy sources. Problems are placed in a world context but emphasis is on the United States.

**GEG 200**  
**INTRODUCTION TO REGIONAL GEOGRAPHY**  
3, 3/0; F 99, 00 GCS  
An introduction to the geographic analysis of selected world regions. Emphasis is placed upon providing the student with an understanding of the regions' major natural environmental features (terrain, climate, natural vegetation, and soils) as well as how these features relate to and influence man's occupancy of each region.

**GEG 206**  
**GEOGRAPHY OF NEW YORK STATE**  
3, 3/0; 1999-01 CS  
Landforms, regions, climates, and natural resources; distribution of population; location and functions of the cities; development of transportation; utilization and conservation of soil, mineral, forest, wildlife, and water resources; industrial development.

**GEG 303**  
**WORLD CLIMATOLOGY**  
3, 3/0; Sp 01  
*Prerequisite:* GEG 101. Discussion of world climate regions. Fundamentals of climate classification systems. Classification, distribution, and comparative analysis of world climatic regions. *Required for the physical geography/conservation concentration, and for geography majors.*

**GEG 304**  
**MAP INTERPRETATION**  
3, 3/0; F 99, 00  
Explores the history of maps; types of maps; techniques of map interpretation. Discusses methods of developing map reading skills for various professions. It combines the lecture topics and laboratory works of map grid systems, map projection, map presentation, map reading, and using global positioning system (GPS) to identify location on the earth's surface.

**GEG 305**  
**PRINCIPLES OF ECONOMIC GEOGRAPHY**  
3, 3/0; Sp 00, 01  
*Prerequisites:* Junior or senior standing and ECO 202. An introduction to the theoretical study of economic geography; utilizing the

approach of location theory, the course develops a theoretical spatial distribution of economic activities, including: agriculture, manufacturing, urban land use, services, and transportation. *Required for urban-regional analysis and planning majors and geography majors.*

**GEG 307**  
**CONSERVATION AND ENVIRONMENTAL MANAGEMENT**  
3, 3/0; 1999-01 GCS  
The nature of resources; concepts and philosophy of conservation; strategies for environmental management of the Earth's land, water, air, and energy resources; and local, regional, and global impacts of resource use.

**GEG 309**  
**INTRODUCTION TO URBAN GEOGRAPHY**  
3, 3/0; 1999-01 DCS  
Spatial arrangement of land uses existing within the American city; differences of American cities of function, size and location; dynamics of change in city structures; central place theory and urban structures. *Required for the urban-regional planning concentration, and for geography majors.*

**GEG 310**  
**GEOGRAPHY OF TRANSPORTATION**  
3, 3/0; offered based on staff availability  
Geography of transportation introduces the comparative study of the modes of transportation, transportation planning, and the benefits and effects of transportation, with special emphasis on application to urban transportation. It will study the importance of accessibility as a factor in the development of a modern metropolitan transportation system.

**GEG 320**  
**HISTORICAL GEOGRAPHY OF THE UNITED STATES**  
3, 3/0; Sp 00  
The approach and methods of historical geography; exploration and discovery; regional variation of cultural landscapes; origin and dispersals of selected cultural traits.

**GEG 330**  
**LAND RESOURCE ANALYSIS AND PLANNING**  
3, 3/0; offered based on staff availability  
*Prerequisites:* PLN 315; junior or senior standing. Analysis of the principles of land resource management with emphasis upon land use patterns, controls, and policy. Attention is given to urban, suburban, and rural land use situations. *Required for the urban-regional planning concentration.*



GEG 357

**GEOGRAPHY OF BUFFALO AND THE NIAGARA FRONTIER**  
3, 3/0; offered based on staff availability D

Explores the people, problems, and interesting places of Buffalo and the Niagara Frontier. Emphasis on qualities of physical site and cultural situation. Studies the relationship of the urban Niagara Frontier with nearby urban areas in North America. A field trip experience is an integral part of the course.

GEG 360

**GEOGRAPHY OF ASIA**  
3, 3/0; Sp 01 GCS

Excludes the former Soviet Union. Regional divisions; landform, climate, and natural resources; cultural and economic geography; social and political problems related to the natural environment; industrial development.

*Open to sophomores, juniors, and seniors.*

GEG 361

**GEOGRAPHY OF AFRICA**  
3, 3/0; offered based on staff availability GCS

*Prerequisite: Junior or senior standing.* An introduction to the geography of Africa through a systematic discussion of selected prominent environmental and cultural characteristics of the continent and its people. Topics include the physical environment, historical development, population, and economic activities.

GEG 362

**GEOGRAPHY OF THE UNITED STATES AND CANADA**  
3, 3/0; Sp 00

Analysis of the basic geographic elements of North America including the natural environment, natural resources, economic activities, population, and urbanization.

GEG 363

**GEOGRAPHY OF MIDDLE AMERICA**  
3, 3/0; F 99 GCS

Physical, cultural, historical, and regional geography of Mexico, Central America, and the West Indies; emphasis on man's relationships to the natural environment.

GEG 364

**GEOGRAPHY OF EUROPE**  
3, 3/0; F 00 GCS

Excludes the former Soviet Union. Physiographic regions, landforms, climate, natural vegetation, soils, and drainage patterns; major economies and their relationships to the natural environment; interdependence of regions.

GEG 365

**SOIL SCIENCE AND MANAGEMENT**  
3, 3/0; F 00

*Prerequisite: GEG 101 or consent of instructor.* An introduction to the study of soils, including physical and chemical properties; weathering and soil formation; productivity and management for agriculture; soil erosion and conservation; engineering properties; soil classification. The course involves regular laboratory assignments and fieldwork to enhance understanding of soil properties.

GEG 375

**PRINCIPLES OF HYDROLOGY**  
3, 3/0; Sp 00, 01

*Prerequisite: GEG 101 or consent of instructor.* A course on the principles in hydrology and its relationship with water resources management. Emphasis is placed on describing the processes governing surface and groundwater movement. A field trip will provide an example of the practical application of hydrologic principles.

GEG 413

**CARTOGRAPHY**  
3, 3/0; Sp 00

*Prerequisite: GEG 101.* Drafting set and tools required. History of cartography, use of drafting materials; the study and construction of map projections and cartograms; principles of map reproduction.

*Required for geography majors.*

GEG 415

**PROSEMINAR**

3, 3/0; offered based on staff availability

*Prerequisite: Consent of instructor.*

One seminar, appropriate to the major's concentration, is required of physical geography/conservation concentration geography majors. Investigation, examination, and discussion of topics of current interest in geography. Techniques and analysis of geographic research.

GEG 425

**COMPUTER MAPPING AND GEOGRAPHIC INFORMATION SYSTEMS**

3, 3/0; F 99, 00

*Prerequisite: CIS 101.* An examination of the uses of computer mapping and geographic information systems (GIS) in geography, planning and related fields; preparation and presentation of studies for mainframe and personal computer systems; the creation and application of GIS. A project will be an integral part of this course.

GEG/PLN 430

**SEMINAR IN GEOGRAPHY AND PLANNING APPLICATIONS**

3, 3/0; Sp 00, 01

*Prerequisite: Open only to senior geography and planning majors.*

Seminar to do research in geography or planning and presentation of selected research-related topics by the department faculty. *Required for geography majors and urban-regional analysis and planning majors.*

GEG 488

**INTERNSHIP**

Hours vary with credit

*Prerequisites: Sopomore, junior or senior standing; GEG 101 plus six credits of geography or planning coursework at upper-division level.*

Internships provide students with guided and supervised field experience which complement the academic program. Students must have at least a 2.5 GPA and a background of courses within the area of interest. Approval of the placement must be obtained from the student's advisor and the department chair.

GEG 495

**PROJECT**

GEG 499

**INDEPENDENT STUDY**

## GERMAN

See Foreign Language

## GREEK

See Foreign Language

## HEALTH AND WELLNESS

### Health and Wellness Department

*Chester Zelasko, Chair*  
Houston Gym 205

### Physical Education HEW 100 Series

Below is a listing of one-credit physical activity courses that are offered based on faculty availability.

### HEW 100 Special Project

Limited for certain movement, exercise, and sport experiences not included in the HEW 100-level offerings. Necessary form must be completed and department chair's approval must be secured. Forms are available in the Health and Wellness office.

### Individual Activities

- 101 Individual Physical Education
- 102 Archery
- 106 Bowling
- 109 Golf

114 Jogging

124 Skiing I (slopes) (Fee)

125 Skiing II (slopes) (Fee)

180 Physical Fitness for Women

198 Strength Fitness

### Dual/Team Sports

136 Badminton I

137 Badminton II

140 Fencing I

141 Fencing II

144 Tennis

148 Volleyball I

149 Volleyball II

182 Racquetball (women)

192 Fencing - Sabre and Epee

196 Racquetball (men)

### Aquatics

151 Swimming—Nonswimmers

152 Swimming—Beginners

153 Swimming—Intermediate

154 Fitness Through Swimming

155 Basic and Emergency

Water Safety

156 Basic SCUBA Diving (Fee)

*Prerequisite: See instructor*

157 Assistant SCUBA Instructor (Fee)

*Prerequisite: See instructor*

158 Lifeguarding

*Prerequisite: See instructor*

### Dance

160 Aerobic Movement

162 Social Dance

164 Folk Dance I

165 Folk Dance II

166 Jazz Dance I

167 Jazz Dance II

168 Tap Dance

170 Modern Dance I

171 Modern Dance II

HEW 199

**CARDIOPULMONARY RESUSCITATION (C.P.R.)**

1, 1/0; offered based on staff availability

To provide respiratory and cardiac emergency response training to recreation, education, and public safety professionals. This course will serve as a foundation for further training in life-guarding, first aid, and athletic training.

HEW 200

**FITNESS FOR LIVING**

2, 2/0

A series of lecture/discussion sessions, laboratory experiences, and specific movement experiences presenting the how, what, and why of physical activity and exercise.

HEW 201

**TECHNIQUES AND THEORIES OF COACHING SPECIALTY SPORTS**  
3, 3/0; offered based on staff availability

A combination of a lecture/discussion analysis of athletic coaching, and a supervised independent study of the requirements for coaching an approved specialty sport.

HEW 202

**TECHNIQUES AND THEORIES OF SOCCER**

3, 3/0; offered based

on staff availability

A complete analysis of the sport of soccer with particular emphasis on history, present status, rules, techniques, and theories.

HEW 203

**TECHNIQUES AND THEORIES OF FOOTBALL**

3, 3/0; offered based

on staff availability

A complete analysis of the sport of football with particular emphasis on history, present status, rules, techniques, and theories.

HEW 204

**PERSONAL AND COMMUNITY HEALTH**

3, 3/0; 1999-01 CS

Develop a deeper understanding of the many problems and advances in medicine and public health as they affect the student's own personal health status and that of the individual, family, school, and community.

HEW 205

**TECHNIQUES AND THEORIES OF TRACK AND FIELD**

3, 3/0; offered based

on staff availability

A complete analysis of the sport of track and field with particular emphasis on history, present status, rules, techniques, and theories.

HEW 207

**TECHNIQUES AND THEORIES OF BASEBALL/SOFTBALL**

3, 3/0; offered based

on staff availability

A complete analysis of the sport of baseball with particular emphasis on history, present status, rules, techniques, and theories.

HEW 208

**TECHNIQUES AND THEORIES OF SWIMMING**

3, 3/0; offered based

on staff availability

A complete analysis of the sport of swimming with particular emphasis on history, present status, rules, techniques, and theories.

HEW 209

**TECHNIQUES AND THEORIES OF BASKETBALL**

3, 3/0; offered based

on staff availability

A complete analysis of the sport of basketball with particular emphasis on history, present status, rules, techniques, and theories.

HEW 210

**WATER SAFETY INSTRUCTION**

3, 3/0; offered based

on staff availability

*Prerequisite: HEW 158 or current life-guarding card.* A course in the knowledge and techniques of aquatic instruction, principles of site selection, class organization, teaching progressions, drill, and skill instruction. Successful completion leads to certification by the American Red Cross in water safety instruction. Students may challenge HEW 210 by applying to the Health and Wellness Department by the announced date each semester, and following the assigned reading and knowledge test procedure as scheduled.

HEW 215

**WELLNESS CONCEPTS**

1, 1/0; offered based

on staff availability

*Prerequisite: The student must be enrolled in an HEW 100 series course (except HEW 199) during the same semester he/she registers for this course.* An introduction to wellness concepts including the study of factors in healthy lifestyles and basic concepts of exercise, nutrition, weight management, stress control, and lifestyle change. Students will develop an action plan for lifetime wellness.

HEW 225

**INTRODUCTION TO DISEASE PREVENTION**

3, 3/0

This course is designed to introduce the general principles of disease. Etiology, signs, symptoms, treatment, and management of diseases that affect individual organs in the various body systems will be covered.

HEW 250

**INTRODUCTION TO HUMAN MOVEMENT**

3, 3/0; offered based

on staff availability CS

Critical orientation to the discipline of physical education, philosophical and historical perspectives; psychological, sociological, physiological foundations.

HEW 300

**ATHLETICS IN EDUCATION**

3, 3/0; offered based

on staff availability CS

*Prerequisite: Sopomore standing.* A study of the philosophy and principles of athletics in education. A required course for students choosing either to meet minimal state standards for the coaching requirement or to concentrate in a selected area of coaching.

HEW 301

**FUNDAMENTALS OF KINESIOLOGY**

3, 3/0; F 99

*Prerequisite: Majors—BIO 308. Non-majors—sopomore standing.* Study

of selected anatomical, physiological, and mechanical principles of movement and their application to human motion.

HEW 302

**EXERCISE PRINCIPLES**

3, 3/0; Sp 00, 01

*Prerequisite: HEW 204, BIO 308.* Practical application of knowledge gained through general anatomy, physiology, and biomechanics. Covers principles and techniques related to fitness, metabolism and weight control, exercise, and training.

HEW 303

**PLANNING, MANAGEMENT, AND EVALUATION OF HEALTH/WELLNESS FACILITIES**

3, 3/0; offered based

on staff availability

*Prerequisite: Junior standing.* A course in the recent trends in construction, evaluation, and maintenance of health-related facilities, such as gymnasia, swimming pools, outdoor play areas, weight training rooms, testing labs, etc. The criteria for selection and supervision of staff as well as necessary equipment purchase/maintenance, plus the legal aspects of health-related facilities will be studied.

HEW 305

**COMMUNITY HEALTH AND WELLNESS**

3, 3/0

*Prerequisite: Junior or senior standing; HEW 204 or consent of instructor.* This course involves the study of community health as it relates to world concerns, U.S. interests, local concerns, and the interrelatedness of health care to various societal issues.

HEW 307

**EXERCISE, FITNESS, AND NUTRITION**

3, 3/0; Sp 00, 01

*Prerequisite: HEW 204.* The ability to generate energy is essential to exercise. This course integrates basic concepts of nutrition and exercise training to improving fitness and athletic performance. The relationship of exercise and nutrition to the etiology and treatment of eating disorders and obesity is explored.

HEW 308

**WOMEN'S HEALTH ISSUES**

3, 3/0; 1999-01

*Prerequisite: Junior or senior standing.* This course is designed for students interested in exploring gender issues in health and health-care practices. Gender differences in health outcomes, health-care practices, and health behavior will be examined and discussed with primary emphasis on woman. Historical and current perspectives on women's health issues will be presented.

HEW 310

**HEALTH STANDARDS AND EMERGENCY CARE**

3, 3/0; Sp 00, 01

*Prerequisite: BIO 105 or equivalent and HEW 204.* This course is designed to promote health safety standards and provide skills in advanced emergency care. Competencies in various areas of emergency medicine include: bandaging, splinting, victim examination, bleeding/shock emergencies, and emergency childbirth. In addition, competencies and proficiency in teaching OSHA safety standards for infectious agents are included. National Safety Council certifications or the equivalent are awarded upon successful completion of the course.

HEW 312

**METHODS AND MATERIALS IN HEALTH AND WELLNESS**

3, 3/0

*Prerequisite: HEW 204.* Instruction in the materials and instructional methodology necessary to create, select, and deliver effective health and wellness programs.

HEW 319/SOC 324

**SOCIOLOGY OF SPORT**

3, 3/0; offered based

on staff availability D

The study of sport and related social phenomena of social statuses, norms, goals, values, and organizational network.

HEW 320

**PSYCHOACTIVE DRUGS AND HEALTH**

3, 3/0; 1999-01

*Prerequisite: Sopomore standing.* Emphasis is placed upon development of an understanding of the widespread effects of abusive use of drugs, their relationship to health and disease, and the implication and application for education and theory. Students may challenge HEW 320 by applying to the Health and Wellness Department by the announced date each semester and following the assigned reading and knowledge test procedure as scheduled.

HEW 335

**PREVENTION AND CARE OF ATHLETIC INJURIES**

3, 3/0; offered based

on staff availability

*Prerequisite: HEW 301 or consent of instructor.* The study of the relationship between conditioning, performance, and injury prevention. Includes techniques and programs of body conditioning for specific sports, as well as the possible treatment of athletic injuries.



**HEW 345**  
**WELLNESS, FITNESS, AND AGING**  
3, 3/0; Sp 00, 01

*Prerequisite:* Junior standing.  
Designed to acquaint students of gerontology with the implications of exercise and physical fitness for the quality of life of older citizens. The course deals with the aging process and its relationship to physiological factors associated with exercise and fitness, differences in capacities for exercise, principles for guiding the selection, programming, and supervision of activities.

**HEW 401**  
**ASSESSMENT AND EVALUATION IN HEALTH/WELLNESS**  
3, 3/0; F 99, 00

*Prerequisite:* HEW 302. This course is designed to introduce concepts surrounding various aspects of fitness, assessment, and evaluation. Topics covered will include cardiovascular fitness, flexibility, muscular strength, and endurance. The course will also incorporate assessment and evaluation techniques in muscular imbalance related to posture, proper nutritional guidelines, and identification and coping techniques for stress.

**HEW 411**  
**CRITICAL ISSUES IN HEALTH AND WELLNESS**  
3, 3/0; Sp 00, 01

*Prerequisites:* HEW 401 and senior standing. This course is a study of one's interaction with his/her many environments and the implications of this interaction for health behaviors. Emphasis is on current facts and attitudes important in confronting critical health issues.

**HEW 412**  
**HEALTH/WELLNESS PROGRAMS**  
3, 3/0; F 99

*Prerequisite:* HEW 302 and senior standing. This course will provide the student an opportunity to utilize health/wellness concepts. The course covers general principles used in the development of health promotion programs. The specific procedures involved in a fitness profile analysis are presented as a vital step in any wellness program. The course incorporates guidelines for implementing physical fitness, and nutrition and weight control programs. Procedures for stress management and smoking cessation programs are also presented. The student will utilize the principles presented in class during practical health planning experiences.

**HEW 425**  
**ALCOHOL PROBLEMS**  
3, 3/0; offered based on staff availability  
*Prerequisite:* Upper-division status. A seminar designed for students as prospective citizens, teachers, super-

visors, and voluntary governmental personnel concerned with individual and community health problems. Emphasis placed upon development of an understanding of the widespread effects of alcohol, its relationship to health and disease, and the implication for health and therapy.

**HEW 488**  
**INTERNSHIP**  
**Credit hours vary; offered based on staff availability**  
*Prerequisite:* Junior or senior standing and consent of instructor. Additional prerequisites are established in selected areas of health and wellness. They are available in the department upon request. Designed to provide for the integration of theoretical knowledge with practical field experience in related areas of health and wellness.

## HISTORY

**History and Social Studies**  
**Education Department**  
*Edward O. Smith Jr., Chair*  
Classroom Building C205

**HIS 101**  
**UNITED STATES IN THE TWENTIETH CENTURY**  
3, 3/0; offered based on staff availability  
Political reform and reaction; isolationism, interventionism, internationalism in foreign relations; big government, industry, and labor; revolution in foreign policy; national security in the nuclear age; social and intellectual ferment in a pluralistic society. Students may take either HIS 101 or HIS 107, but not both. They will only receive credit for one of these courses.

**HIS 106**  
**HISTORY OF AMERICAN LIFE I**  
3, 3/0; 1999-01 CS  
Exploration and colonization: the meeting of cultures; colonial America; shaping an identity; contest for the continent; prologue to independence; independence and the new nation; framing a constitution; religious, ethnic, and cultural diversity in the new nation; Jeffersonian Republicanism; nationalism and economic expansion; the emergence of social strains; Jacksonian democracy; religion and reform; expansion and sectional crisis; American life and culture in the mid-nineteenth century; a decade of crisis; the Civil War; aftermath of war.

**HIS 107**  
**HISTORY OF AMERICAN LIFE II**  
3, 3/0; 1999-01 CS  
The new South; reunion, readjustment, and constitutional freedoms; the West; the economic revolution; the urban society; politics in the Gilded Age; America's emergence as a world power; the Progressive Era; World War I and its aftermath; the 1920s; the New Deal; from isolationism to globalism; World War II; post-war adjustments; the Kennedy and Johnson years; resurgent republicanism.

**HIS 110**  
**HISTORY AND IDEAS**  
3, 3/0; offered based on staff availability  
Topics and problems in history developed in a historical frame of reference with course attention devoted to methods and techniques of historical analysis, articulating and writing critiques; class discussion and interaction.

**HIS 115**  
**FOUNDATIONS OF WESTERN CIVILIZATION**  
3, 3/0; 1999-01 CS  
Major contributions of the Greek, Roman, and medieval civilizations to the creation of our western heritage in philosophy, art, literature, science, political structure, economy, and law.

**HIS 116**  
**EUROPE SINCE 1500**  
3, 3/0; 1999-01 CS  
Growing concern of man and his relation to his world; development of nationalism, the concepts of freedom and democracy; increasing attention to the spirit of inquiry; scientific development and technology and their impact on society; the formulation of fascism, communism, socialism, and the concern for political ideology.

**HIS 117**  
**TWENTIETH-CENTURY EUROPE**  
3, 3/0; 1999-01 CS  
Political, social, cultural, and intellectual history of twentieth-century Europe; factors contributing to World War I; the Versailles Settlement, the Russian Revolution and the rise of communism; collapse of collective security and the rise of fascism and national socialism; the western democracies between the wars; the road to World War II; restoration of the Atlantic Community, and the challenge of the nuclear age.

**HIS 121**  
**INTRODUCTION TO JEWISH HISTORY**  
3, 3/0; offered based on staff availability  
The ancient near East; the Bible as history; Moses and the prophets; daily

life in Biblical times; Jesus and the rise of Pauline Christianity; the fall of the Jewish state; Jews in exile.

**HIS 155**  
**WORLD WAR II**  
3, 3/0; offered based on staff availability G  
Delineates the factors which led to the outbreak of the war; the conduct of the war from its continental phase through its spread to global dimensions. Campaigns, theaters of operations as well as the process of decisionmaking by both Allied and Axis Powers constitute the substance of the course.

**HIS 201**  
**THE AGE OF DISCOVERY**  
3, 3/0; offered based on staff availability  
Classical and medieval background of the Age of Discovery; myth and reality of cosmography at the beginning of the Great Age of Discovery; early travelers; technological innovation; economic, social, and cultural forces supporting discovery and exploration; Portuguese, Spanish, French, and English voyages; impact of discovery on economic, literary, artistic, and cultural conditions; New World on the eve of period of colonization.

**HIS 204**  
**GLOBAL HISTORY OF THE TWENTIETH CENTURY**  
3, 3/0; 1999-01 GCS  
The study of the history of the twentieth century emphasizing the interrelationship of events and the interaction of movements and ideas within a global context.

**HIS 206**  
**A HISTORY OF POLAND**  
3, 3/0; F 99, 00  
An examination of major Polish historical and cultural achievements through the ages; the growth and development of the nation and state; scientific, cultural, and religious forces in Polish life.

**HIS 207**  
**IMPERIAL SPAIN**  
3, 3/0; offered based on staff availability  
Ferdinand and Isabella unify Spain; rise of the Spanish empire; Columbus, Cortes, and the conquest of Spanish America; Charles V and Spain's domination of Europe; the Spanish colonial system in America; the problems of Philip II; war with England; revolt in the Netherlands; decline of Spain under the later Hapsburgs; reform and revolution in the 18th century; Spanish America's wars for independence.

**HIS 208**  
**HISTORY OF ENGLAND SINCE 1485**  
3, 3/0; offered based on staff availability  
Rise and transition of representative, parliamentary government; commercial and industrial development; social, intellectual, and economic trends manifested through literature, art, the press, and other social agencies; transition from empire to commonwealth of nations; impact abroad of such concepts as mercantilism, laissez-faire, classical economics, and collectivism.

**HIS 210**  
**HISTORY OF MODERN ASIA**  
3, 3/0; 1999-01 GCS  
China, Japan, and Southeast Asia in modern times; rise of nationalism, internal social and political conflict, response to western powers; impact of ideology and totalitarianism; industry and technology and the problems of international wars.

**HIS 211**  
**HISTORY OF MODERN AFRICA SINCE 1919**  
3, 3/0; offered based on staff availability GCS  
Partition of Africa by European nations; impact of colonial regimes; African resistance movements; drive toward independence; problems of economic and social change; cultural and intellectual currents in modern Africa.

**HIS 212**  
**HISTORY OF THE JEWS IN EUROPE**  
3, 3/0; offered based on staff availability  
A history of European Jews from 70 A.D. to the end of the nineteenth century. Considers Jewish communities in Roman and Byzantine Empires, in Reconquest Spain and feudal Europe, and during the Renaissance, Enlightenment and post-Napoleonic periods. Analyzes patterns of religious intolerance in European history.

**HIS 213**  
**HISTORY OF CITIES**  
3, 3/0; offered based on staff availability  
Cities and their development, the making of cities in a historical context, the geo-political impetus to development of cities as well as the historical economic necessities in a developing society; case examples of city development include the developing politics, the social structure, the relationship to environment, the impact of structure and location on attitudes, problems unique and general in modern cities.

**HIS 215**  
**HISTORY OF CHRISTIAN THOUGHT**  
3, 3/0; offered based on staff availability  
An analysis of classic and current Catholic, Orthodox, Anglican, and Protestant explanations of major Christian ideas. Such concepts as the nature of revelation; the nature of humankind; evil; authority; historicity and eschatology; and worship.

**HIS 220**  
**CLASSICAL GREECE AND ROME**  
3, 3/0; Sp 00, 01  
An examination of the development of Greece, the western Hellenistic world and the Roman Empire with emphasis on cities, economic development, technology, social change, and ideas.

**HIS 222**  
**THE AMERICAN REVOLUTION**  
3, 3/0; F 99, 00  
Historiographical approaches to the American Revolution; ideological origins of revolutionary America; the British Empire and the growth of American discontent after 1760; a decade of crisis, 1765-1775; America's war for independence, 1775-1783; the revolution's impact on American society; revolutionary politics, 1775-1787.

**HIS 260**  
**THE TURBULENT SIXTIES**  
3, 3/0; offered based on staff availability  
Overview from the end of World War II (1945-1960); incisive political, economic, social, cultural, and diplomatic analysis of the years 1960-1974. Topics include: the black revolution, Martin Luther King Jr., Malcolm X and others, John F. Kennedy, the New Frontier, the Cuban crisis, the Berlin Wall, assassinations, the Vietnam War; the Johnson administration, student protests, university takeovers, the commune movement, the Nixon administration, Watergate, the president's resignation, the oil crisis, and the recession of 1974.

**HIS 301**  
**COUNTERCULTURE/UTOPIAS**  
3, 3/0; offered based on staff availability  
The idea of utopian societies; the utopian communities; leaders and followers; relation of idealism to economic, social, political, and religious conditions; the phenomenon of modern commune development in the United States; young people and counterculture.

**HIS 302**  
**HISTORY OF WOMEN IN AMERICA**  
3, 3/0; offered based on staff availability D  
The impact of women on American development from colonial time to the present; effects of history on the roles

and status of women; changes in women's role in the family, economic contributions, legal status, struggle for equal rights; women and demographic changes; developing perceptions of women about society; political growth and women; our society's regard for women in a historical context; and the differences and/or similarities between women from various ethnic, racial, religious, and socioeconomic groups.

**HIS 303**  
**THE CITY IN AMERICAN HISTORY**  
3, 3/0; offered based on staff availability  
Topics covered include: historical background; colonial period; formation of a new nation; towns in westward expansion; industrialization; political machines; municipal reform; the city in American thought; twentieth century developments; the contemporary scene.

**HIS 304**  
**EUROPE FROM NAPOLEON TO THE FIRST WORLD WAR**  
3, 3/0; F 99, 00  
Major influences in nineteenth-century Europe; nationalism, imperialism, Industrial Revolution, democracy, and socialism; causes of World War I.

**HIS 305**  
**SEX AND GENDER IN HISTORY**  
3, 3/0; offered based on staff availability  
*Prerequisite:* Junior standing or consent of instructor. An examination of the background and sources of some of the major sex and gender issues of our own day. Topics to be analyzed include the influence of historical and cultural factors on attitudes, changing understanding of the nature of sexuality in the western world, influence of religion in moderating change, effect of disease in forming attitudes, and the development of the concepts of deviance, stigmatized behavior, and gender dysphoria.

**HIS 306**  
**HISTORY OF AFRICA TO 1919**  
3, 3/0; offered based on staff availability G  
*Prerequisite:* HIS 115 or consent of instructor. Indigenous developments and early empires of Africa; the impact of Islam; Western contact and the slave trade; the development of European colonialisms; the partition of Africa and colonial administrative policies of the European powers; the wanings of European power as a result of World War I.

**HIS 308**  
**HISTORY OF CANADA**  
3, 3/0; Sp 00, 01  
The establishment of France and England in Canada; the impact of national developments in the United

States and the status of Canada; the social, ethnic, cultural, economic, and political growth of Canada; the significance of French Quebec in Canadian development; Canada's unique experience with democracy and nationalism under the influence of England, France, and the United States.

**HIS 309**  
**AMERICAN LEADERS**  
3, 3/0; Sp 00  
A study of selected leaders in critical periods or areas of American civilization, such as: Benjamin Franklin and revolutionary America; John Marshall and federal power; Booker T. Washington and W.E. DuBois—contrasting black leaders; Lincoln Steffens and the muckrakers; Henry Ford and mass production.

**HIS 310**  
**HISTORY OF THE FAR EAST: THE TRADITIONAL ERA**  
3, 3/0; F 99, 00  
*Prerequisite:* Junior or senior standing. China, Korea, and Japan before the coming of the West; traditional cultures, geography, political and religious institutions; impact of western ideas and colonialism.

**HIS 311**  
**AMERICAN IMMIGRATION AND EMIGRATION**  
3, 3/0; offered based on staff availability  
From colonial times to the present; American immigration policies; the people who came and who left the U.S.; the process of assimilation; problems of immigration and emigration.

**HIS 312**  
**HISTORY OF ITALY**  
3, 3/0; Sp 00, 01  
Classical and medieval foundation; Renaissance Italy; prelude to unification; Italian nationalism, liberalism and socialism; Italy under fascism; the Italian Republic, accomplishments and problems.

**HIS 313/PSC 345**  
**POLITICS AND HISTORY OF THE MIDDLE EAST**  
3, 3/0; offered based on staff availability CS  
Analysis of political culture and geographic settings; historical development since the French invasion of Egypt; the disintegration of the Ottoman Empire and the rise of Western colonialism; nationalist movements, independence, and turmoil; the post-World War II political evolution, diversity and problems; emphasis upon the region's key industries.



**HIS 314**  
**MODERN LATIN AMERICA**  
3, 3/0; offered based on staff availability GCS  
*Prerequisite:* HIS 207 or consent of instructor. Movements for independence; early political apprenticeship; age of dictators; nationalism and national development; Hispanic-American interrelations; growth of inter-American system; Latin America in world politics; revolution of rising expectations; guerrilla movements, turmoil in Central America; contemporary problems.

**HIS 317**  
**HISTORY OF RUSSIA TO 1917**  
3, 3/0; F 99, 00  
*Prerequisite:* Junior or senior standing. Social, political, and economic history of Russia from the Varangians state to the October 1917 Revolution; effects of geographic locations; the Mongol conquest; retarded reorientation toward the West in the eighteenth and nineteenth centuries; participation in world politics, expansion in Europe and in the East, participation in World War I.

**HIS 318**  
**HISTORY OF THE FORMER SOVIET UNION**  
3, 3/0; Sp 00, 01  
Economic and historical forces behind the Communist Revolution of 1917; the governmental system and its political, social, and economic theories; the evolving economic system; Soviet foreign policy, impact of the Revolution and World War II; the church, the educational systems, and other cultural developments.

**HIS 319**  
**COLONIAL HISTORY OF THE AMERICAN PEOPLE**  
3, 3/0; F 99, 00  
*Prerequisite:* Junior or senior standing. Establishment and development of English, Spanish, French, Dutch, and Swedish colonies in North America; American Revolutionary period, colonial influence on early culture and institutions of the United States; subsequent contributions to the American heritage.

**HIS 320**  
**MODERN HISTORY OF JAPAN AND KOREA**  
3, 3/0; offered based on staff availability G  
History of Japan and Korea in the twentieth century; the rise of Japan as a modern nation; the rise and fall of the Japanese empire; Japan under new democracy; Korea under Japanese control; the liberation and division of Korea; the problem of reunification of Korea.

**HIS 321**  
**HISTORY OF MEDIEVAL EUROPE**  
3, 3/0; F 99, 00  
*Prerequisite:* HIS 115 or consent of instructor. Transition from Graeco-Roman to medieval civilization. Islam, Charlemagne and feudal Europe; crusades; cultural, economic, and political revival of the twelfth-century medieval church and papacy; medieval intellectual synthesis; rise of monarchies, decline of papacy; decline of medieval civilization.

**HIS 322**  
**AFRICAN-AMERICAN HISTORY**  
3, 3/0; 1999-01 DCS  
Heritage of black Americans; African-Americans' existence under slavery; their role in influencing historical events; activity in the Civil War period; the freed men during reconstruction; migration to the north and adjustment to urban life; African-American leaders, institutions, ideas, and their impact on modern America.

**HIS 324**  
**AMERICAN PRESIDENTS**  
3, 3/0; Sp 00, 01  
*Prerequisite:* HIS 106 or HIS 107. A biographical approach to the study of the presidency from Washington to the current era. An examination of the background to and evolution of that office, and the roles that the best and worst presidents played in shaping its powers.

**HIS 325**  
**U.S. BUSINESS HISTORY**  
3, 3/0; Sp 00, 01  
The history of U.S. business and its societal and cultural contexts. Businesses within mercantilism; merchants and craftsmen in the early republic; business and governmental action in the North and South; industrialization; rise of corporations and anti-trust; business, government, and science; managerial style; advertising; the multinational; Rust Belt and Sun Belt; high-tech society.

**HIS 326**  
**HISTORY OF THE GREAT LAKES REGION**  
3, 3/0; F 99, 00  
*Prerequisite:* HIS 106 or HIS 107 or HIS 308. This course will provide students with a unique opportunity to expand their knowledge of the history of the Great Lakes. Through a combination of lectures, presentations, and applied research, students will be introduced to the variety of natural, social, and political factors that have shaped this region.

**HIS 330**  
**U.S. ENVIRONMENTAL HISTORY**  
3, 3/0; Sp 00, 01  
The impact of Americans on their natural environment, and the influence of this natural and a developing social

environment on Americans in the past. Aborigines and the earliest settlers; establishment of patterns and institutions; preservationists vs. conservationists, 1860-1940; the modern environmental movement, 1940-present.

**HIS 331**  
**AMERICAN WESTWARD EXPANSION**  
3, 3/0; Sp 00  
*Prerequisite:* HIS 106 or junior standing. An examination of the gradual westward migration of Americans; their patterns of migration and settlement; the natural environment and peoples they encountered; and the influence of the frontier on the development of American institutions, thought, and the American personality.

**HIS 332**  
**TECHNOLOGY AND U.S. HISTORY**  
3, 3/0; F 00  
Interaction of U.S. society with technology in the past, concentrating on the last 200 years. Background of western technology; the agricultural revolution; industrial technology; technology and culture, labor, the home, medicine, the government; post-industrial technology.

**HIS 334**  
**MODERN IRELAND SINCE 1800**  
3, 3/0; Sp 00, 01  
*Prerequisite:* Junior standing or consent of instructor. An examination of the major factors that shaped Irish history in the nineteenth and twentieth centuries. Topics to be analyzed are the impact of the Union with Britain; the struggle for Catholic emancipation; the Great Famine and its aftermath; revolutionary movements like Young Ireland, the Fenians and Sinn Féin; the cultural revival and religion in Victorian Ireland. Also the question of home rule and independence; the growth of the free state and the establishment of the Northern Ireland state; Ireland in World War II and the emergence of contemporary Ireland in the context of the European economic community.

**HIS 335**  
**HISTORY OF MEXICO**  
3, 3/0; offered based on staff availability  
*Prerequisite:* Junior or senior standing. Pre-Columbian Indian cultures; Spanish conquest of Mexico; Spanish colonial administration in the Viceroyalty of New Spain; the Enlightenment and Mexican independence; Early National period; the Mexican Revolution of 1910; Mexico today.

**HIS 336**  
**HISTORY OF EARLY MODERN IRELAND**  
3, 3/0; F 99, 00  
*Prerequisite:* HIS 115 or HIS 116 or HIS 208. A focus on the political, economic, and social histories of Ireland in the Early Modern period, circa 1485-1800. An overview of the development of the Irish state, its constituent communities, and relations with England and the British mainland up to the union of 1800. Emphasis will be placed on what it meant to "be Irish" in the Early Modern period, and how varying definitions or "Irishness" have affected Ireland's cultural and political history. Reading primary sources and leading and participating in discussions will be emphasized.

**HIS 340**  
**GEOGRAPHY AND PLANNING HISTORICAL-URBAN ANALYSIS OF THE BUFFALO METROPOLITAN AREA**  
3, 3/0; offered based on staff availability in coordination with Geography and Planning Department  
An introductory course on the nature of the city, its growth and dynamics of urban development, the enduring impact of its historical past in relation to its geographical presence; a case study of Buffalo.

**HIS 341**  
**AFRICAN-AMERICANS AND CIVIL RIGHTS**  
3, 3/0; 1999-01 D  
A history of the landmark court decisions, laws, and governmental policies in the area of the civil rights of African-Americans. The course will examine some of the historic relationships between race, racism, law, and public policy in America. The course will also focus on resistance, protest, and the quest for equality in America.

**HIS 342**  
**ENGLISH LEGAL HISTORY**  
3, 3/0; offered based on staff availability  
*Prerequisite:* HIS 116. Origins of English law to 1066; growth of medieval common law; common law and its rivals in sixteenth and seventeenth centuries; consolidation and reform of law and courts; relation of law and equity; criminal and civil jurisdiction and procedure; the legal profession; changing legal concepts and the modern state.

**HIS 343**  
**INTRODUCTION TO AMERICAN LEGAL HISTORY**  
3, 3/0; offered based on staff availability  
*Prerequisite:* HIS 342 or consent of instructor. Origins of ideas of law; English background of American law;

colonial legal history; Puritanism, law and social goals, revolution; criminal and civil jurisdiction and procedure; nineteenth-century codification movements; the legal profession; social changes and the law.

**HIS 344**  
**HISTORY OF AMERICAN CAPITALISM**  
3, 3/0; offered based on staff availability  
Conservative reaction to reconstruction, decline of the presidency, the triumph of capitalism and industry, populist protest, the end of westward movement, socialization of immigrants, progressive impulse and leadership, rural vs. urban conflict, the U.S. and the race for empire; and the role of America in World War I.

**HIS 345**  
**HISTORY OF THE UNITED STATES SINCE 1941**  
3, 3/0; 1999-01  
*Prerequisite:* HIS 101 or HIS 107. Political, diplomatic, social, and cultural history of contemporary America; World War II and the advent of the nuclear age; the Cold War and the policy of containment; the Korean War, McCarthyism and domestic reform; the New Frontier and the Great Society; civil rights, civil disobedience and the greening of America; war and peace in Southeast Asia; Watergate and the travail of liberalism.

**HIS 350**  
**LEFT AND RIGHT IN EUROPEAN HISTORY**  
3, 3/0; F 99  
*Prerequisite:* Junior standing. The evolution of Marxist, anarchist, state socialist, and right radical ideologies in European thought and politics.

**HIS 351**  
**MODERN FRANCE**  
3, 3/0; F 00  
Selected problems in French political, social, economic, and diplomatic history emphasizing historiography and interpretation of such periods as the restored monarch, the revolution of 1848, the Second Empire, the Third Republic and its successors.

**HIS 354**  
**THE SPANISH CARIBBEAN**  
3, 3/0; offered based on staff availability  
*Prerequisite:* HIS 207 or consent of instructor. Spanish colonization of the Caribbean; pirates and the foreign threat; race relations and the development of colonial society; Cuba rebels against Spain; the Spanish-American War; Cuba and the United States; Castro's revolution; Puerto Rico under U.S. rule; rise of Puerto Rican nationalism; Puerto Rico today.

**HIS 360**  
**GERMANY AND HITLER**  
3, 3/0; 1999-01  
Political, cultural, and social developments since the Reformation; Prussian kings and German emperors; nationalism and unification; Hitler's Austria; World War I; the challenge of democracy, the Nazi dictatorship; World War II; Germany after Hitler.

**HIS 365**  
**AMERICAN LABOR HISTORY**  
3, 3/0; F 00  
*Prerequisite:* HIS 107. Readings and bibliography on the role of workers in American life; slaves; indentured servants, wage-earners and craftsmen. The rise of organized labor from colonial times; the history of the Knights of Labor, the American Federation of Labor, the Congress of Industrial Organizations and independent unions, with related issues of immigration, radicalism and political action, contemporary labor problems.

**HIS 370**  
**AMERICAN DIPLOMATIC HISTORY TO 1898**  
3, 3/0; offered based on staff availability  
*Prerequisite:* HIS 106. Independence from Britain and alliance with France; the Constitution and the formation of foreign policies; neutral rights and war with Britain; rise of manifest destiny, commercial and territorial expansion, diplomacy of slavery and the Civil War; diplomacy and isolationism in the post-Civil War period.

**HIS 371**  
**AMERICAN DIPLOMATIC HISTORY SINCE 1898**  
3, 3/0; offered based on staff availability  
*Prerequisite:* HIS 101, HIS 107, or consent of instructor. War with Spain and the rise to world power; inter-American and Far-Eastern relations; diplomacy of World War I; retreat to isolationism; road to World War II; global war and its aftermath; leadership in the United Nations and the Cold War; inter-American and Far-Eastern affairs.

**HIS 372**  
**AMERICAN FOREIGN POLICY IN THE FAR EAST**  
3, 3/0; offered based on staff availability  
*Prerequisite:* Sophomore, junior, or senior standing. Dawn of America's Asiatic interests, early relations with China; opening of Japan; missionary activity and influence; war with Spain; America becomes a Pacific power; World War I and the rise of Chinese nationalism; American gunboat diplomacy; inter-war naval conferences; Manchurian Incident; American-Japanese problems; road to war; Pearl Harbor and war in the

Pacific; search for Pacific security; conflict in Korea; war and peace in Vietnam.

**HIS 375**  
**HISTORY OF THE BYZANTINE EMPIRE**  
3, 3/0; F 99  
*Prerequisite:* HIS 115 or consent of instructor. The history of the Byzantine Empire, its influence on intellectual and cultural progress in Western Europe and among the Eastern and Balkan Slavs with special emphasis on internal, social, economic, political, and cultural developments.

**HIS 380**  
**INTRODUCTION TO THE MUSEUM**  
3, 3/0; offered based on staff availability  
*Prerequisite:* Consent of instructor. History, theory, and practices of the historical agency or museum; extensive reading, illustrated lectures, and exercises in museum and historical agency problems; a series of field trips to area museums and agencies.

**HIS 381**  
**THE ROLE OF THE HISTORY MUSEUM**  
3, 3/0; offered based on staff availability  
*Prerequisite:* HIS 380 or consent of instructor. Theory and practice of historical investigation and publication; uses and procedures of research in historical museums and agencies; evaluation of source materials; preparation of historical essays and exhibits.

**HIS 389**  
**HISTORICAL PERSPECTIVES (TOPICS)**  
3, 3/0; offered based on staff availability  
Examination of themes and unique developments in history that stand apart from the normal pattern; analytical and historiographical approach to such topics and phenomena as reform and reaction in American life; impact of ideology in European relations; clash of tradition and modernization in Asia; rise of nationalism in Latin America; emergence of a third world. Emphasis on class discussion of assigned materials and oral and written reactions to readings.

**HIS 399**  
**JUNIOR SEMINAR IN HISTORIOGRAPHY**  
3, 3/0; 1999-01  
*Prerequisite:* Majors in history or social studies education or consent of instructor. Introduction to historiography is intended to acquaint history and social studies education majors and other interested students with great works of historical literature, in the western and other traditions. This course will introduce students to the development of historical writing from

the ancient times through the present. Students will be encouraged to assess sources which have been used to record the past, along with examining the various methodologies employed by historians in studying the past. This course will be a prerequisite for HIS 400W.

**HIS 400**  
**SENIOR SEMINAR IN HISTORY**  
3, 3/0; 1999-01  
*Prerequisite:* Senior standing; HIS 399 for history majors. Readings, discussion, and research on selected problems in history which results in a substantial research paper. *Fulfills seminar requirement for history majors and secondary social studies majors.*

**HIS 401**  
**TWENTIETH-CENTURY EUROPE AND DIPLOMACY**  
3, 3/0; F 00  
Topics covered include: causes and diplomatic problems of World Wars I and II; the Paris Peace Conference and interwar diplomacy; peacemaking in the Cold War era; the European movement; Gaullism and its consequences.

**HIS 404**  
**SECTIONALISM AND THE CIVIL WAR**  
3, 3/0; offered based on staff availability  
*Prerequisite:* Junior or senior standing. The structure of the American south, sectional development and states rights; slavery; the development of antislavery agitation and reform; the rise of Lincoln and the division of political parties; Civil War and the military; constitutional and diplomatic crises; economic and social impact of the war; reconstruction of the union.

**HIS 405**  
**THE RENAISSANCE AND REFORMATION**  
3, 3/0; offered based on staff availability  
*Prerequisite:* Junior or senior standing. Impact of the Renaissance and Reformation on intellectual, artistic, economic, and political development of Europe; social and religious problems; humanism, secularism, classicism, individualism in Italy and Northern Europe; Protestant reform and reformers; Catholic Reformation.

**HIS 406**  
**THE FRENCH REVOLUTION AND NAPOLEON**  
3, 3/0; offered based on staff availability  
*Prerequisite:* Junior or senior standing. Political, social, economic, and intellectual fabric of the Old Regime; the Revolution; dictatorship of



Napoleon and spread of revolutionary ideas; rise of modern nationalism.

**HIS/SSE/SST 407**  
**THE TEACHING OF HISTORY**  
3, 3/0; 1999-01

*Prerequisite:* Junior or senior standing. A study of the curriculum and practice of history teaching. Particular emphasis is placed on the historical development and theoretical aspects of the teaching discipline, as well as recent research on how people construct historical meaning.

**HIS 408**  
**AMERICAN**  
**INTELLECTUAL HISTORY**  
3, 3/0; F 99, 00

*Prerequisite:* Junior or senior standing. Sources of major bodies of thought and ideas in American history; their impact upon American culture; the role ideas have played in producing a distinctive culture.

**HIS 415**  
**HISTORY AND GOVERNMENT**  
**OF NEW YORK STATE**  
3, 3/0; offered based  
on staff availability  
*Prerequisite:* Junior or senior standing. Aboriginal background; development of the colony; establishment of the state; rise of political parties; past and present structure and problems of New York State government; economic and social growth in the present time.

**HIS 419**  
**CURATORSHIP**  
3, 3/0; offered based  
on staff availability  
*Prerequisite:* Junior or senior standing. *HIS 380* or consent of instructor. An examination in detail of principles and techniques of collection and care of museum collection, the library, collections, audiovisual materials, archives, iconography, and historic sites; development of professional expertise in curatorship.

**HIS 420**  
**ADMINISTRATION OF THE**  
**HISTORICAL AGENCY OR**  
**ART MUSEUM**  
3, 3/0; offered based  
on staff availability  
*Prerequisite:* Junior or senior standing. *HIS 380* or consent of instructor. Principles and practice of administration of museums; problems of organization, collection, exhibition, public services, finance, public relations, and trustee relations; special experience in the area of interpretation.

**HIS 422**  
**TUDOR AND STUART ENGLAND**  
3, 3/0; Sp 01  
*Prerequisite:* Junior or senior standing. Henry VII and the new dynasty; religion and politics under the

early Tudors; the age of Elizabeth I; the Stuarts and the Puritan revolt; restoration and revolution; limiting the monarchy and establishing the empire.

**HIS 430**  
**UNITED STATES—**  
**THE NEW NATION**  
3, 3/0; Sp 00, 01  
*Prerequisite:* Junior or senior standing. The United States following the American Revolution through Andrew Jackson's administrations. Federal authority, political parties, industrial and sectional economic development during a period of territorial, social, and diplomatic transformation. The formative and foundational structure of American society during the periods of Washington, Jefferson, and Jackson will be examined.

**HIS 450**  
**MUSEUM INTERNSHIP**  
6, 15/0; offered based  
on staff availability  
*Prerequisite:* Junior or senior standing and consent of instructor. An intern program for students interested in gaining practical experience in museum work. Assignments to a particular museum will be made on the basis of the student's major related disciplines; students in areas such as history, anthropology, art history, education, and the natural sciences are eligible to participate.

**HIS 468**  
**READINGS IN AFRICAN-AMERICAN**  
**HISTORY**  
3, 3/0; Sp 00, 01 D  
*Prerequisite:* Junior or senior standing. An examination of the major historical writings on selected periods and topics in African-American history. The class activities will include readings, discussion, and writing book reviews and bibliographical essays.

**HIS 469**  
**BLACK PROTEST AND**  
**LEADERSHIP IN THE U.S.**  
**IN THE TWENTIETH CENTURY**  
3, 3/0; offered based  
on staff availability D  
*Prerequisite:* Junior or senior standing. An examination of the black protest movements and leaders in twentieth-century America.

**HIS/SSE 488**  
**INTERNSHIP**  
3-12; see chair or pertinent staff  
*Prerequisite:* Sophomore, junior or senior standing; six credits lower-division major courses; plus six credits of history and social studies education coursework at the upper-division level; minimum 2.5 cumulative GPA; minimum 2.5 GPA in major. Internships provide students with guided and supervised field experiences which complement the academic program. Students must

have at least a 2.5 GPA and a background of courses or experience within the area of interest. Approval of the placement must be obtained from the student's adviser and the department chair.

**HIS 495**  
**PROJECT**

**HIS 498**  
**HONORS RESEARCH**  
3, 3/0  
*Prerequisite:* Students must have completed 12 credits in the history honors program. An advanced research course for students in the history honors sequence.

**HIS 499**  
**INDEPENDENT STUDY**

## HONORS

**All College Honors Program**  
*Andrea Guiati, Coordinator*  
Bishop Hall 139

**Open only to students accepted into the All College Honors Program.**

**HON 100**  
**ALL COLLEGE HONORS SEMINAR**  
3, 3/0  
*Prerequisite:* Acceptance into the All College Honors Program. This introductory course for the All College Honors Program provides students with the opportunity, in a seminar setting, to meet with faculty from across the disciplines and discuss how specific fields of study contribute to the betterment of humankind. This course seeks to promote students' appreciation, critical examination, and application of interrelated concepts and values as defined by works of literature, art, music, scientific endeavor, technology, historical research, pedagogy, and political theory.

**HON 101**  
**HUMANITIES SEMINAR**  
3, 3/0 CH  
*Prerequisite:* Acceptance into the All College Honors Program. A humanities core course designed for All College Honor students as part of an integrated sequence of core courses which focus on the great ideas and works of various cultures.

**HON 102**  
**NATURAL SCIENCE SEMINAR**  
3, 3/0 CM  
*Prerequisite:* Acceptance into the All College Honors Program. A natural science core course designed for All College Honor students as part of an integrated sequence of core courses which focuses on the role of science in contemporary society. Students

enrolled in this course may not take SCI 100 for credit.

**HON 103**  
**ARTS SEMINAR**  
3, 3/0 CA  
*Prerequisite:* Acceptance into the All College Honors Program. An arts core course designed for All College Honor students as part of an integrated sequence of core courses which focus on the great ideas and significant works in the arts.

**HON 301**  
**VALUES AND ETHICS IN**  
**THE PROFESSIONS**  
3, 3/0 CT  
*Prerequisite:* Acceptance into the All College Honors Program. Seminar course to explore the theories of value development, value dilemmas, and implications of legal aspects of the ethical practice of human service, educational, and health-care professions. This course provides the opportunity to examine these topics from a personal and a professional viewpoint.

**HON 302**  
**SOCIAL SCIENCE SEMINAR**  
3, 3/0 CS  
*Prerequisite:* Acceptance into the All College Honors Program. A social science core course designed for All College Honor students as part of an integrated sequence of core courses. This course focuses on the central ideas, epistemology, issues, and significant works in and among the disciplines of the social sciences.

**HON 400**  
**ALL COLLEGE HONORS**  
**COLLOQUIUM**  
3, 3/0  
*Prerequisite:* Acceptance into the All College Honors Program. This course is the culminating activity in the All College Honors Program. Students will complete original works of scholarship and creativity and present their work in a colloquium forum to allow for the maximum exchange of ideas. This course provides closure to the objectives of the All College Honors Program.

## HUMANITIES

*Susan Leist, Coordinator*  
Bishop Hall 223

**HUM 100**  
**INTRODUCTION TO HUMANITIES**  
3, 3/0; 1999-01 CH  
An introduction to some of the central topics in the humanities. A study of how human beings have attempted to give meaning to their lives through literary, philosophical and creative expression.

**HUM 320**  
**THE TRADITION OF ROMANTIC**  
**LOVE IN WESTERN LITERATURE:**  
**1000—PRESENT**  
3, 3/0 CH  
A survey of the depiction of romantic love in western European and American literature from the Middle Ages to the present, as well as of the social realities which, over the centuries, have caused romantic love to remain at the heart of occidental literature.

**HUM 321**  
**RHETORICAL CRITICISM**  
3, 3/0; Sp 99, 00 CH  
*Prerequisite:* Junior or senior standing or consent of instructor. Instruction in the analysis of persuasive messages, designed to teach students to recognize and respond analytically to strategies used by public persuaders to influence them. Focus on political speeches, commercial advertising, protest music, and a variety of other forms of purposeful communication.

**HUM 327**  
**GREAT WRITING AND REPORTING**  
**OF AMERICAN JOURNALISM**  
3, 3/0; Sp 99, 00 CH  
*Prerequisite:* Junior or senior standing. This course explores excellence in reporting and writing and analyzes the reasons why some journalistic writings are considered great and worthy of enduring fame.

## INDUSTRIAL TECHNOLOGY

See Technology

## ITALIAN

See Foreign Language

## LATIN

See Foreign Language

## LIBRARY

*Faculty of Butler Library*  
Butler Library 134

**LIB 100**  
**INTRODUCTION TO LIBRARY**  
**RESEARCH METHODS**  
1, 1/0; 1999-01  
Provides students with a basic understanding of the library so that materials and time may be used efficiently and effectively when doing library

research. Use of research tools and research strategy methods are discussed. Research tools covered are the on-line library catalog, encyclopedias and dictionaries, periodical indexes, abstracting services, audiovisual and microform resources, computer searching of CD-ROM databases, and remote on-line information sources. Open to all students. Recommended for freshmen and sophomores.

**LIB 300**  
**ADVANCED LIBRARY RESEARCH**  
**METHODS**  
3, 3/0; 1999-01  
Provides students with an understanding of advanced library research strategies, along with critical thinking and evaluation skills. Enables students to apply this knowledge in selecting and using appropriate print and electronic sources to conduct specialized research. Recommended for upper-level students and students planning to pursue graduate studies.

## MATHEMATICS

**Mathematics Department**  
*Tom Giambrone, Chair*  
Bishop Hall 317

The mathematics department suggests the following guidelines in selecting mathematics courses: Students with three-and-one-half to four years of high school mathematics who plan to major in a mathematics-related area should enroll in MAT 161 and MAT 163. A student with credit for only three years of high school mathematics may want to enroll in MAT 124 before electing MAT 161. A student who intends to major in mathematics should complete at least the required three-semester calculus sequence by the end of the sophomore year in order to fulfill the degree requirements within four years.

1. A declared mathematics major may not receive credit toward requirements for any mathematics course numbered below MAT 161.
2. A student may receive general elective credit only for a course numbered below MAT 161, provided the course was taken before the student declared mathematics as a major.

**MAT 097**  
**BASIC MATHEMATICS**  
0, 3/0; 1999-01  
*Prerequisite:* Must have failed competency test with a score below nine. A course which provides the necessary mathematics background needed to pass the algebra section of the College Proficiency Examination in mathematics; covers polynomials, rational expressions, exponents and roots, solving equations and inequalities.

**MAT 098**  
**BASIC MATHEMATICS**  
0, 0/1; 1999-01  
*Prerequisite:* Must have failed competency test with a score of 9-13. This is a fully computer-based instruction presentation. The instructor interacts with the program by evaluating pretests and placing the student appropriately in the course continuum. Information is presented primarily by the computer program with instructor intervention. Students are encouraged to complete the entire course of study, but may exit the course when they achieve a score at or above the minimum competency exam. One hour per week attendance is required.

**MAT 103**  
**INTRODUCTION TO**  
**CONTEMPORARY MATHEMATICS**  
3, 3/0; 1999-01 CM  
*Prerequisite:* Must have passed the mathematics competency exam. A focus on contemporary mathematics, the methods used, and applications to the wide variety of problems that arise in a rapidly changing society and are solved by contemporary mathematical techniques.

**MAT 107**  
**CASINO GAMBLING**  
3, 3/0; Sp 00, 01 CM  
*Prerequisite:* Must have passed the mathematics competency exam. An intensive encounter with the phenomenon of chance and the theory of probability which governs it, through a critical examination of various casino gambling games including roulette, craps, and blackjack.

**MAT 110**  
**INTERMEDIATE COLLEGE**  
**ALGEBRA AND TRIGONOMETRY**  
3, 3/0; 1999-01 CM  
*Prerequisite:* Must have satisfied math basic skills requirement. A course that provides concepts and skills in intermediate algebra and right triangle trigonometry. Topics include: equation, inequalities, polynomials, exponents, radicals, logarithms, systems of equations, functions, and trigonometry of the right triangle.

**MAT 119**  
**FINITE MATHEMATICS**  
3, 3/0 CM  
*Prerequisite:* MAT 110 or three years of high school math. Logic, sets, partitions, probability, vectors, matrices, linear programming.

**MAT 121**  
**MATHEMATICS FOR**  
**ELEMENTARY TEACHERS I**  
3, 3/0; 1999-01  
*Prerequisite:* MAT 110 or three years of high school math. Problem solving, elementary set theory, the whole numbers, the integers, the rational

numbers, introductory probability, beginning geometry, number theory, using computers.

**MAT 122**  
**MATHEMATICS FOR**  
**ELEMENTARY TEACHERS II**  
3, 3/0; 1999-01  
*Prerequisite:* MAT 121. The real number system, logic, relations, functions, probability and statistics, geometry, LOGO.

**MAT 124**  
**PRE-CALCULUS MATHEMATICS**  
3, 3/0; 1999-01  
*Prerequisite:* MAT 110 or three years of high school math. Numbers, inequalities, functions graphing, polynomials, rational functions, circular functions, trigonometric identities, induction, sequences. A pre-calculus course in algebra and trigonometry designed primarily for those who have had eleventh-year high school mathematics. No credit given to students who have completed a college calculus course.

**MAT 126**  
**CALCULUS**  
3, 3/0; 1999-01 CM  
*Prerequisite:* MAT 110 or three years of high school math. Functions, limits, continuity, techniques for differentiations, applications, summations, anti-derivatives, definite integrals, fundamental theorem of calculus techniques of integration applications. Credit may not be earned for both MAT 126 and MAT 161 or equivalents.

**MAT 127**  
**CALCULUS OF SEVERAL VARIABLES**  
3, 3/0; 1999-01 CM  
*Prerequisite:* MAT 126. A study of the calculus of several variables with emphasis on applications to the physical and social sciences. The level of the course is like that of MAT 126. Vectors; conic sections, surface in three-space, functions of several variables and their graphs; partial derivatives; lines and planes in three-space; tangent planes and normal lines and their applications; the differential and its applications; the directional derivative and its applications; introduction to differential equations and application. Credit may not be earned for both MAT 127 and MAT 162 or equivalents.

**MAT 161**  
**CALCULUS I**  
3, 3/0; 1999-01 CM  
*Prerequisite:* MAT 124 or four years of high school math. Functions, limits, continuity, differentiation of algebraic functions, applications of the derivative, and differentiation. Credit may not be earned for both MAT 126 and MAT 161 or equivalents.



**MAT 162**  
**CALCULUS II**  
3, 3/0; 1999-01 CM  
*Prerequisite:* MAT 161. The definite integral, the techniques of integration, logarithmic and exponential functions. Applications studied through algorithmic techniques or computer usage. Credit may not be earned for both MAT 127 and MAT 162 or equivalents.

**MAT 163**  
**USING TECHNOLOGY TO EXPLORE CALCULUS I**  
1, 1/0; 1999-01  
*Prerequisite:* Students must be concurrently enrolled in, or have successfully completed, MAT 161 or its equivalent. Weekly class session in which students use a programmable graphing utility to explore the mathematics they are learning in MAT 161.

**MAT 164**  
**USING TECHNOLOGY TO EXPLORE CALCULUS II**  
1, 1/0; 1999-01  
*Prerequisite:* Students must be concurrently enrolled in, or have successfully completed, MAT 162 or its equivalent. Weekly class session in which students use programmable graphing utilities and Computer Algebra Systems to explore the mathematics they are learning in MAT 162.

**MAT 183**  
**PROBLEM SOLVING IN MATHEMATICS**  
3, 3/0  
*Prerequisite:* MAT 124 or four years of high school math. An introduction to the basic techniques of problem solving; creative problem solving; the methods of Polya, Wickelgren, and others; and applications to the areas of algebra, geometry, analysis, and recreational mathematics. The emphasis is on process rather than content.

**MAT 202**  
**INTRODUCTION TO LINEAR ALGEBRA**  
3, 3/0; 1999-01  
*Prerequisite:* One course in calculus. Vector and vector spaces; linear dependence, basis and dimension; matrices and determinants; linear systems; linear transformations; eigenvectors; and invariant subspaces.

**MAT 263**  
**CALCULUS III**  
3, 3/0; 1999-01  
*Prerequisite:* MAT 162. Vectors, partial differentiation, multiple integrals, and infinite series. Applications studied through algorithmic techniques and/or computer usage.

**MAT 264**  
**USING TECHNOLOGY TO EXPLORE CALCULUS III**  
1, 1/0; 1999-01  
*Prerequisites:* MAT 164; student must be concurrently enrolled in, or have successfully completed, MAT 263. Weekly class session in which students use a programmable graphing utility and Computer Algebra Systems to explore the mathematics they are learning in MAT 263.

**MAT 270**  
**DISCRETE MATHEMATICS**  
3, 3/0; 1990-01  
*Prerequisite:* One course in calculus. This course is an introduction to the non-continuous side of mathematics. The student will gain skills in proof, logic, sets, relations, functions, and counting methods.

**MAT 301W**  
**FUNDAMENTALS OF ABSTRACT ALGEBRA**  
3, 3/0; 1999-01  
*Prerequisite:* MAT 202 or MAT 270. An introduction to the fundamental concepts of abstract algebra, sets, mappings, binary operations, relations; and to algebraic structures of groups, rings, fields, and applications.

**MAT 302**  
**ALGEBRA II**  
3, 3/0; F 00  
*Prerequisite:* MAT 301. Quotient fields of integral domains, polynomials rings, Euclidean domains, ideals, and factorization. Finite fields, extension fields, splitting fields. Applications to geometric constructions and solvability, applications chosen from contemporary areas of coding theory, block designs, etc.

**MAT 304**  
**GAMES AND LINEAR PROGRAMMING**  
3, 3/0; F 00 CM  
*Prerequisite:* MAT 110 or three years of high school math. Elementary techniques for finding optimal choices among games strategies and in linear programming problems using the fundamental minimax theorem and the simplex method. Application in such areas as business, industry, economics, social sciences, and behavioral sciences. Not open to mathematics majors.

**MAT 306**  
**PROBLEM SOLVING IN BASIC**  
3, 3/0; F 99 CM  
*Prerequisite:* MAT 110 or three years of high school math. An introduction to the mathematical uses of computers in today's society. Background; typical uses; writing programs in BASIC, solution of problems in number theory, geometry, finance, and algebra; mathematical games; sorting. Does not satisfy major requirements.

**MAT 311**  
**INTRODUCTORY PROBABILITY AND STATISTICS**  
3, 3/0; 1999-01 CM  
Descriptive statistics; probability and random variable; binomial, normal and t distributions; estimations and tests of hypotheses concerning means, proportions, and differences between means and proportions. Not open to mathematics majors.

**MAT 315**  
**DIFFERENTIAL EQUATIONS**  
3, 3/0; 1999-01  
*Prerequisite:* MAT 263 or consent of instructor. Preliminary ideas on order, degree, and solutions; formation of differential equations; differential equations of first order linear equations with constant coefficients; special high order equations; simultaneous equations; linear equations of the second order, series solutions.

**MAT 316**  
**INTERMEDIATE DIFFERENTIAL EQUATIONS**  
3, 3/0; F 99, 00  
*Prerequisite:* MAT 315. Laplace transform; inverse Laplace transform and applications, partial differentiation equations, Fourier series, boundary value problems, transform methods application.

**MAT 322W**  
**MODERN GEOMETRY**  
3, 3/0; 1999-01  
*Prerequisite:* MAT 202 or MAT 270. Euclidean constructions, theorems of Menelaus and Ceva, cross ratio, harmonic points, orthogonal circles, isometries and similarities in the plane, introduction of projective geometry.

**MAT 351**  
**ELEMENTARY THEORY OF NUMBERS**  
3, 3/0; 1999-01  
*Prerequisite:* MAT 124 or four years of high school math. Divisibility, Euclid's algorithm; numbers; prime factorization theorem; Euler's phi-function; Diophantine analysis; congruence; theorems of Fermat, Euler, and Wilson.

**MAT 366**  
**COMPUTER MATHEMATICS II**  
3, 3/0  
*Prerequisites:* MAT 264 and MAT 270. Structured programming, verification of program validity, data structures, combinatorial problems, flow network algorithms, random number generators, simulation of random and non-random processes.

**MAT 370**  
**APPLIED NETWORKS**  
3, 3/0; Sp 00, 01  
*Prerequisites:* MAT 202 and MAT 270. Introduction to network and graph theoretic concepts. Considers properties with application in computa-

tional mathematics, social science decision making, and physical science.

**MAT 381**  
**PROBABILITY**  
3, 3/0; 1999-01  
*Prerequisites:* MAT 270 and MAT 127 or MAT 162. Probability models, discrete and continuous random variables and their distributions or densities, multivariate distributions, mathematical expectation, and special distributions and densities.

**MAT 382**  
**TOPICS IN MATHEMATICAL STATISTICS**  
3, 3/0; Sp 00, 01  
*Prerequisite:* MAT 263 and MAT 381. Sampling distributions, the central limit theorem, point and interval estimation, tests of hypotheses.

**MAT 401**  
**INTRODUCTION TO TURING MACHINES AND ABSTRACT COMPUTABILITY**  
3, 3/0  
*Prerequisites:* MAT 270 and either MAT 301 or MAT 351. An introduction to topics in finite automata and Turing machines, including universal Turing machines, and abstract computability.

**MAT 404**  
**APPLICATIONS OF LINEAR ALGEBRA**  
3, 3/0; F 99, 00  
*Prerequisites:* MAT 202, MAT 263, and MAT 264. Eigenvalue problems; diagonalizing matrices; linear programming; simplex method; applications to areas such as business, industry, economics, social sciences, and behavioral sciences.

**MAT 411**  
**COMPLEX VARIABLES**  
3, 3/0; F 00  
*Prerequisite:* MAT 263. Complex numbers, analytic functions, elementary functions, contour integration, integral theorems, Taylor series, Laurent series, uniform convergence, calculus of residues, mappings, and applications.

**MAT 417**  
**INTRODUCTION TO REAL ANALYSIS I**  
3, 3/0; F 99  
*Prerequisite:* MAT 263. A rigorous treatment of elementary real analysis including: properties and axioms of the real number system, relations and functions, sequences, continuity, differentiation, infinite series, power series, and the Riemann integral.

**MAT 418**  
**INTRODUCTION TO REAL ANALYSIS II**  
3, 3/0; Sp 00  
*Prerequisite:* MAT 417 or equivalent. A continuation of MAT 417 with topics to be chosen from: Riemann-Stieltjes integration, improper integrals, infinite series, series of functions, partial differentiation, Jacobians, implicit function, multiple integrals, and Fubini's Theorem.

**MAT 461**  
**NUMERICAL ANALYSIS**  
3, 3/0; Sp 00, 01  
*Prerequisites:* MAT 202, MAT 263, and MAT 264. Numerical solutions (and error analysis) to linear and nonlinear equations, interpolation, curve fitting, function approximation, numerical differentiation and integration, differential equations.

**MAT 471**  
**INTRODUCTION TO TOPOLOGY**  
3, 3/0  
*Prerequisites:* MAT 270 and either MAT 301 or MAT 417. An introduction to topology—sets and functions, metric spaces, topological spaces, connectedness, compactness, and separation.

**MAT 490**  
**SEMINAR**  
3, 3/0  
*Prerequisite:* Senior mathematics major or consent of instructor. Investigation of some topics of current interest to mathematicians, such as group theory, game theory, differential geometry, measure theory, sampling theory, etc.; emphasis is on oral presentations by the students and discussion.

**MAT 495**  
**PROJECT**

**MAT 499**  
**INDEPENDENT STUDY**

**MED/SED 307**  
**USES OF TECHNICAL AIDS IN THE TEACHING OF MATHEMATICS**  
3, 3/0; 1999-01  
*Prerequisites:* An introductory computer course or equivalent computer experience and junior or senior standing. This course includes an introduction to the equipment and software available for use in the mathematics classroom through solving problems and explorations. Ways in which it can be used effectively, a process for developing classroom lessons, and preparation for adoption of future developments will be studied. Students will produce and evaluate projects for use in the mathematics classroom.

**MED/SED 308W**  
**METHODS IN THE TEACHING OF SECONDARY SCHOOL MATHEMATICS**  
3, 3/0; 1999-01  
*Prerequisites:* for 0721: Admission to the secondary education bachelor of science in mathematics degree program: MAT 161, MAT 162, MAT 163, MAT 164, MAT 202, MAT 263, MAT 264, MAT 301W, MAT 322W, MAT 381, with a GPA of 2.5 in all math courses; at least three from SST/MED 200, EDF/SED 303, EDF/SED 403, MED 383 or two from the above group and one from MED/SED 307, EDF 321, EDF 346, EDF 353, EDF 410, EDF 412 with a GPA of 2.5; at least 75 hours. *Prerequisite:* for 0222: Minimum math GPA 2.5, EDF 202 and EDF 302 with grades of "C" or better, at least 75 hours. An introduction to the theory and practice of classroom teaching for the prospective secondary mathematics teacher. Experiences in classroom discipline, planning for instructor, curricular issues, evaluation and testing, and special learning techniques. Includes lectures, peer presentation, construction and critique of lesson plans, use of media, and research of teaching strategies.

**MED 383W**  
**LEARNING AND TEACHING PROBLEM SOLVING**  
3, 3/0; 1999-01  
*Prerequisites:* Two semesters of calculus, MAT 270, and junior or senior standing. Experiences in mathematical problem solving, learning through problem solving, and a consideration of diverse perspectives and problem-solving approaches. Strategies for teaching the use of a problem solving-based approach and the historical and current roles of problem solving in secondary mathematics are also emphasized.

**MED/SED 407**  
**STUDENT TEACHING OF MATHEMATICS IN JUNIOR HIGH/MIDDLE SCHOOL**  
6, 30/0; 1999-01  
*Prerequisites:* for 0721: Completion of MED/SED 308 with a grade of "C" or better; all required math courses, and six credits of upper-division mathematics; GPA of 2.5 in all math courses; senior standing. *Prerequisites:* for 0222: MED/SED 308 with grade of "C" or better, as many as possible of required math courses with minimum GPA of 2.5, senior standing. Early secondary-school classroom laboratory experiences, goal of early secondary math education, psychological influences, teaching models, testing and evaluation techniques, total involvement in early secondary school activities-practicum.

**MED/SED 408**  
**STUDENT TEACHING OF MATHEMATICS IN SENIOR HIGH SCHOOL**  
6, 30/0; 1999-01  
*Prerequisites:* Completion of MED/SED 308 with a grade of "C" or better; all required math courses, and six credits of upper-division mathematics; GPA of 2.5 in all math courses; senior standing. Secondary school classroom laboratory experiences, goals of secondary mathematics education, psychological influences, teaching models, testing and reevaluation techniques of instruction, total involvement in secondary school activities-practicum.

**MED 496**  
**PROJECT**

**MED 499**  
**INDEPENDENT STUDY**

## MUSIC

**Performing Arts Department**  
*Donna E. McCarthy, Chair*  
Rockwell Hall 203

**MUS 112**  
**APPLIED MUSIC**  
1, 0/1/2; 1999-01  
*Private lesson fee possible*  
*Prerequisites:* Previous performance with the instrument; audition required.

**MUS 161-164**  
**APPLIED MUSIC II**  
1, 0/1; offered based on staff availability  
*Private lesson fee possible*  
*Prerequisite:* Audition. Courses must be taken in sequence. Class instruction in instrument or voice, HV.

**MUS 165**  
**KEYBOARD HARMONY I**  
1, 1/0; offered based on staff availability  
*Prerequisite:* Consent of instructor. Applied music; keyboard harmony. Class instruction in piano, emphasizing playing chords for songs used in elementary schools. Not for beginning pianists.

**MUS 171-172, 173-174, 271-272, 273-274, 371-372, 373-374**  
**APPLIED MUSIC**  
1-2, 0/1/2-1; 1999-01  
*Private lesson fee possible*  
*Prerequisite:* Audition. Individual lessons for students of voice or instrument.  
*Required for music majors.*

**MUS 202**  
**VOCAL LITERATURE: SEVENTEENTH TO TWENTIETH CENTURY**  
3, 3/0; offered based on staff availability  
Class instruction and listening experience in the principal literature of choral and art song of the seventeenth to twentieth centuries.

**MUS 206**  
**JAZZ AND ROCK FOUNDATIONS**  
3, 3/0; 1999-01 DCA  
A study of the roots of blues, jazz, and rock music in America, and a survey of the historical developments that helped formulate today's jazz and rock movements from 1920 into the 1990s.

**MUS 208**  
**SURVEY OF WORLD MUSIC CULTURES**  
3, 3/0; 1999-01 GCA  
Comparative study through lectures and listening assignments of the major art music cultures of Asia, the Middle East, Indonesia, and the West.

**MUS 210**  
**MUSIC THEORY FOR NON-MAJORS**  
3, 3/0; 1999-01 CA  
Music notation, aural and written; scales, intervals, triads, seventh chords, rhythms, simple and compound meters, tuplets, elementary recitation, dictation, analysis, composition, and computer applications.

**MUS 211**  
**INTRODUCTION TO CONDUCTING**  
1, 1/0; offered based on staff availability  
*Prerequisite:* Consent of instructor. A course in group conducting such as might be helpful to the classroom teacher.

**MUS 217**  
**EXPERIENCES IN MUSIC FOR BEGINNERS**  
3, 3/0; offered based on staff availability CA  
For students who would like to experiment with making music, learn to play some simple instruments, receive guidance in listening to art music, begin to learn to read and understand music.

**MUS 218**  
**SIGHT-SINGING AND EAR TRAINING I**  
1, 0/3; F 99, 00  
*Corequisite:* Music majors and minors must also be enrolled in MUS 230. A sight-singing and ear training laboratory course intended for those students who already have basic music reading skills. A diagnostic test will be given at the beginning of the semester.  
*Required for music majors and minors. Elective for others.*



**MUS 230**  
**MUSIC THEORY I**  
3, 3/0; F 99, 00  
*Prerequisite:* Basic music reading skills. *Corequisite:* MUS 218. An introduction to the fundamentals of music including: notation, scales, modes, tonality, key signatures, intervals, basic chords, basic harmony, voice leading, melodic structures, and the general stylistic features of the various epochs of Western music.

**MUS 231**  
**MUSIC THEORY II**  
3, 3/0; Sp 00, 01  
*Prerequisite:* MUS 230 and MUS 218. *Corequisite:* MUS 318 for music majors. A continuation of the study of the fundamentals of music with a particular emphasis on harmony, voice leading, and simple formal structures within the contexts of the various historical periods of Western music. *Required for music majors.*

**MUS 301**  
**SURVEY OF MUSIC HISTORY**  
3, 3/0; 1999-01 CA  
*Prerequisite:* Junior or senior standing. Listening to music from the middle ages through the present; an introduction to music forms, styles, and composers as well as historical, cultural, and social backgrounds; parallel developments in other arts.

**MUS 302**  
**MUSIC HISTORY, ANTIQUITY THROUGH BAROQUE**  
3, 3/0; F 00  
*Prerequisite:* Consent of instructor or one theory course. Emphasis on medieval, Renaissance, and Baroque styles.

**MUS 303**  
**MUSIC HISTORY: CLASSIC AND ROMANTIC**  
3, 3/0; F 99  
*Prerequisite:* One theory course or consent of instructor. The eighteenth- and nineteenth-century opera, oratorio, solo song, chamber music, symphony, and other forms.

**MUS 304**  
**MUSIC HISTORY: TWENTIETH CENTURY**  
3, 3/0; Sp 00  
*Prerequisite:* One theory course or consent of instructor. Sources and development of the idioms, style, and new sound media of music in the twentieth century.

**MUS 305**  
**MODERN JAZZ**  
3, 3/0; offered based on staff availability D  
*Prerequisite:* MUS 206 or MUS 205. A study of the history and development of modern jazz from 1941 to the present.

**MUS 306**  
**URBAN BLUES AND ROCK**  
3, 3/0; offered based on staff availability D  
*Prerequisite:* MUS 206 or MUS 205. Sources and development of the idioms, style, and sound media of this music.

**MUS 307**  
**OPERA AND DRAMATIC MUSIC**  
3, 3/0; offered based on staff availability CA  
*Prerequisite:* Junior or senior standing, or one previous music course. An introduction to opera and vocal dramatic music, including discussion of organizing principles and historical developments. Presentation of representative works from various musical periods. Concert attendance may be required.

**MUS 308**  
**CHAMBER MUSIC**  
3, 3/0; offered based on staff availability CA  
*Prerequisite:* Junior or senior standing, or one previous music course. An appreciation course focusing on music for small instrumental and vocal groups or soloists from the middle ages through the present day. Concert attendance may be required.

**MUS 310**  
**WOMEN IN MUSIC**  
3, 3/0; offered based on staff availability  
*Prerequisite:* Junior or senior standing, or consent of instructor. A study of the evolving roles of women in Western art music and popular music, including discussion of prominent female musicians from ancient times through the present.

**MUS 313**  
**ENSEMBLE I**  
1, 0/2; 1999-01  
*Prerequisite:* Consent of instructor and audition. Repeatable. Training and supervised performance in the literature for small music ensembles related to a student's musical interest. Percussion, guitar, saxophone, and various chamber instrumental or vocal ensembles are offered.

**MUS 314**  
**CONCERT BAND**  
1, 0/2; 1999-01 CA  
*Prerequisite:* Some prior performance experience on a wind or percussion instrument used in the standard band instrumentation. Open enrollment; repeatable. Placement within the various sections is determined by audition during the first week of classes. Rehearsals and performances include historical and contemporary wind and percussion literature from around the world as well as transcriptions and arrangements of masterpieces from the Renaissance era to the present.

**MUS 317**  
**MUSIC FOR CHILDREN**  
3, 3/0; offered based on staff availability  
*Prerequisite:* Junior or senior standing. Music experiences and activities for the elementary grades.

**MUS 318**  
**SIGHT-SINGING AND EAR TRAINING II**  
1, 0/3; Sp 00, 01  
*Prerequisite:* MUS 218. *Corequisite:* Music majors should be registered in MUS 231. A continuation and expansion of the melodic, harmonic, and rhythmic sight-singing and ear training concepts that were expounded in MUS 218. *Required for music majors.*

**MUS 319**  
**AMERICAN FOLK MUSIC**  
3, 3/0; offered based on staff availability  
*Prerequisite:* MUS 206 or MUS 205. Lectures, reading, and listening experience in the various idioms of American folk music.

**MUS 321**  
**ARRANGING VOCAL, INSTRUMENTAL, POPULAR, AND JAZZ**  
3, 3/0; offered based on staff availability  
*Prerequisite:* Consent of instructor. Class instruction and supervised training in arranging music for dance, stage, and popular song, with study of representative examples of the literature. Traditional arranging methods are stressed.

**MUS 322**  
**CONDUCTING**  
3, 3/0; offered based on staff availability  
*Prerequisite:* upper-division music major or equivalent, or consent of instructor. Use of baton; reading and observation; attendance at selected concerts.

**MUS 326**  
**JAZZ ENSEMBLE**  
1, 0/2; 1999-01  
*Prerequisite:* Consent of instructor and audition. Repeatable. Training and supervised performance in jazz and dance band combinations.

**MUS 329**  
**SYMPHONIC MUSIC**  
3, 3/0; offered based on staff availability CA  
*Prerequisite:* Junior or senior standing or one previous music course. The understanding and appreciation of masterpieces written for the symphony orchestra by Classic, Romantic, and Contemporary period composers. Elements of historical developments and formal structures will be stressed. Students will be

required to become familiar with portions of the standard repertoire. Attendance at selected concerts may be required.

**MUS 330**  
**MUSIC THEORY III**  
4, 2/4; F 99, 00  
*Prerequisites:* MUS 231 and MUS 318. A study of the harmonic and compositional techniques of the eighteenth and nineteenth centuries. Includes the development and drilling of aural and keyboard skills. *Required for music majors.*

**MUS 331**  
**MUSIC THEORY IV**  
4, 2/4; Sp 99, 00  
*Prerequisite:* MUS 330. A study of the tonal, atonal, and electronic compositional techniques of the Western art music system from 1890 to the present time. Includes the development and drilling of aural, vocal, and keyboard skills. *Required for music majors.*

**MUS 335**  
**BUFFALO STATE COLLEGE SINGERS**  
1, 0/2; 1999-01 CA  
Repeatable. Rehearsal and performance of representative choral music from a diverse repertoire including classical, pop, gospel, spirituals, jazz, folk, and show music. Presentation of the fundamentals of choral singing.

**MUS 340**  
**ETHNOMUSICOLOGY I**  
3, 3/0; Sp 01 G  
*Prerequisites:* MUS 230 and MUS 218 or ANT 101. Lectures, readings, and recordings introducing the student to various principal musical traditions of selected non-Western cultures, such as African, Indic, and Sinitic; also some consideration of the African-American tradition, including jazz and rock. Individual projects of music or cultural analysis will be assigned. *Required for music majors.*

**MUS 384**  
**THE MUSIC OF BEETHOVEN**  
3, 3/0; offered based on staff availability  
*Prerequisite:* One of the following: MUS 201, MUS 202, MUS 203, MUS 204, MUS 205, MUS 206, MUS 208, MUS 210, MUS 217, MUS 230, MUS 301, MUS 302, MUS 303, MUS 304, or MUS 340. A study of Beethoven's music with particular emphasis on its historical context, innovations, and impact on his contemporaries and future generations of audiences, artists, and musicians.

**MUS 150-450**  
**DIRECTED STUDY SEMINAR, COMPOSITION**  
3, 3/0; offered based on staff availability  
*Prerequisite:* Consent of instructor and department. Supervised projects in an area of music study not addressed by current offerings, such as, but not restricted to, composition and theory, sound recording, computer music, and computer music editing, with all students reporting to a common seminar. MUS 450 is an All College elective.

**MUS 155-455**  
**DIRECTED STUDY SEMINAR, THEORY**  
3, 3/0; offered based on staff availability  
*Prerequisite:* Performance ability on musical instrument, knowledge of major scales. Supervised projects in an area of musical theory not addressed by current offerings, with all students reporting to a common seminar.

**MUS 495**  
**PROJECT**

**MUS 499**  
**INDEPENDENT STUDY**

## NUTRITION, HOSPITALITY, AND FASHION

**Nutrition, Hospitality, and Fashion Department**  
*Suk Y Oh, Chair*  
Caudell Hall 107

**See fashion and textiles courses under Fashion and Textile Technology.**

*Note:* Students may be responsible for some minor expenses associated with some of the following courses. Consult the department or schedule of courses, published each semester, for details.

**NFS 100**  
**MULTICULTURAL FOODS**  
3, 3/0; 1999-01 D  
A cultural overview of the foods and food habits of selected groups. Common foods, meal patterns, special occasion foods, and the role of food in society will be described and observed, as well as the impact the group has had on the American lifestyle.

**NFS 101**  
**INTRODUCTION TO FOOD COMPOSITION AND PREPARATION**  
3, 2/2; 1999-01  
Laboratory coat/apron required. An introduction to the study of food with emphasis on the scientific principles that are involved in the identification and conservation of nutrients.

**NFS 105**  
**FOOD AND PEOPLE: INTERACTIONS AND ISSUES**  
3, 3/0; 1999-01 GCT  
An examination of the relationship people have with food including but not limited to consideration of basis for eating behavior and patterns, eating disorders and faddism, potential hazards associated with foods, dietary goals and guidelines for countries of the world, and issues relating to world nutrition problems, especially hunger.

**NFS 110**  
**INTRODUCTION TO HOSPITALITY AND TOURISM**  
3, 3/0; 1999-01 CT  
This course is designed to provide students with an overview of the hospitality-tourism industry which is comprised of hotels, resorts, tourism and travel, convention management, casinos and gaming, food service (commercial and noncommercial), and culinary arts. Students will learn about the emerging trends in the industry and available career opportunities.

**NFS 200**  
**SANITATION AND SAFETY IN FOOD SERVICE**  
2, 2/0; 1999-01  
*Prerequisite:* NFS 100. A presentation of the causes and conditions leading to foodborne illness. Students will learn how to evaluate food service operations for potential hazards and to implement measures to control them. At the completion of the course, students will take the sanitation certificate examination offered by the Educational Foundation of the National Restaurant Association.

**NFS 300**  
**FOOD AND BEVERAGE MANAGEMENT**  
4, 1/6; Sp 00, 01  
*Prerequisite:* NFS 100. Students will have an opportunity to work in commercial, noncommercial, and/or community food service facilities. Students will be required to apply various food production, purchasing, and sanitation principles while participating in the labs. Emphasis is on preparing highest quality products and providing high quality service.

**NFS 301**  
**FOOD SCIENCE**  
4, 3/2; Sp 00, 01  
*Prerequisites:* CHE 321 and NFS 101. Laboratory coat required. A study of the characterization, analysis, and iden-

tification of the components of food, the effect of processing on food and the interrelationship of various aspects of food science to nutrition.

**NFS 320**  
**ALCOHOL MANAGEMENT ISSUES**  
2, 2/0  
*Prerequisites:* NFS 100 and NFS 361. A study of the legal responsibilities of alcohol beverage service to the general public. Operational techniques for hiring and training will be discussed as well as the development of skills necessary for the conscientious service of alcohol through formal organizational policies.

**NFS 334**  
**CONTEMPORARY NUTRITION**  
3, 3/0; 1999-01 CT  
An explanation of nutrition which covers the functions, requirements, food sources, and results of deficiency and excess for each nutrient, as well as a variety of topics of current interest, such as weight control. Food fads and government nutrition policies will also be evaluated. *Not open to dietetics majors.*

**NFS 335**  
**NUTRITIONAL NEEDS AND CONCERNS DURING THE LIFESPAN**  
3, 3/0  
*Prerequisite:* NFS 334. A study of special nutritional needs and concerns during the life cycle, factors influencing them, and means of meeting them through proper food choices and nutrition education. *Not open to dietetics majors.*

**NFS 337**  
**HUMAN NUTRITION**  
3, 3/0; F 99, 00  
*Prerequisites:* BIO 313 and CHE 321. A study of the nutrients required by humans for normal physiological function, with emphasis on nutrient requirements, sources, digestion, absorption, metabolism, storage, and function.

**NFS 338**  
**NUTRITION AND THE LIFE CYCLE**  
3, 3/0; F 99, 00  
*Prerequisite:* NFS 337. The study of nutritional needs and concerns in the various physiological ages of mankind. Application of the principles of nutrition to pregnancy, lactation, infancy, the pre-school and school-age years, adolescence, adulthood, and later maturity, with appropriate discussion of nutrition services and programs available to the different age groups. *Required for dietetics majors.*

**NFS 340W**  
**INDUSTRY EXPERIENCE**  
3, 0/9; Sp 00, 01  
*Prerequisites:* NFS 100, completion of writing competency requirement,

*major GPA of at least 2.0.* An opportunity to integrate technical knowledge with industry experience in food service operations. Includes supervised field experience, meeting with instructor, and structured written assignments. This course may be taken for a maximum of six credits.

**NFS 350**  
**COMPUTER APPLICATIONS FOR HOSPITALITY**  
3, 1/4; F 99, 00  
*Prerequisites:* Major in hospitality administration, junior standing. Students will work with the latest versions of several software packages used in the hospitality industry. Software packages may include inventory management, employee scheduling, and menu planning. Students will also consider disk operating systems and be required to analyze selected hospitality case studies.

**NFS 361W**  
**PRINCIPLES OF MANAGEMENT IN FOOD SERVICE**  
3, 3/0; 1999-01  
The application of management principles in food service systems.

**NFS 368**  
**HOTEL OPERATIONS**  
3, 3/0; Sp 00, 01  
This course will discuss the organization, function, and management of the rooms, division of hotels, resorts, and other lodging facilities. The major emphasis of the course will be on front office management and house-keeping management. The areas of security and facilities management will also be reviewed.

**NFS 370**  
**COST CONTROLS IN HOSPITALITY**  
3, 3/0; Sp 00, 01  
*Prerequisites:* NFS 300 and completion of college math competency. Students will be exposed to relevant accounting and financial concepts and procedures. Students will learn the interrelationships between different costs and their impact on gross margins and net incomes. Strategies to control fixed and variable costs in the hospitality industry will be discussed.

**NFS 380**  
**TRAINING FOR HOSPITALITY**  
3, 3/0; F 99, 00  
*Prerequisite:* NFS 360 or BUS 360. A review of the training principles to the design, implementation, and evaluation of programs for the hospitality industry. An opportunity to apply theoretical concepts to hospitality-related situations.



**NFS 390**  
**STRATEGIC MARKETING IN HOSPITALITY**  
3, 3/0; F 99, 00  
Application of marketing principles to the hospitality industry with emphasis on planning and promotion for new and established organizations.

**NFS 408**  
**CONVENTION AND MEETING MANAGEMENT**  
3, 3/0; F 99, 00  
This course will introduce students to the meeting, convention, and exposition industry. It will provide a broad overview of the industry and the basic framework for planning a meeting, convention, or exposition.

**NFS 410**  
**NUTRITION EDUCATION: CONCEPT AND APPLICATION**  
3, 3/0; Sp 00, 01  
*Prerequisite:* NFS 335 or NFS 338.  
Students will learn about methods and issues relating to the development of nutrition education programs. Particular emphasis will be placed on instructional strategies. Each student will gain experience by preparing a nutrition project aimed at a population group of his or her choice.

**NFS 418**  
**TOURISM MANAGEMENT**  
3, 3/0; Sp 00, 01  
An in-depth study of tourism as a world export industry and its importance to the economy will be of focus. The course will examine tourist behavior including: motivation and decision making; the interrelationship of recreation and tourism; the system used to deliver tourism services; and the products and services of the tourism industry.

**NFS 420**  
**FRANCHISING AND ENTREPRENEURSHIP IN HOSPITALITY INDUSTRY**  
3, 3/0  
*Prerequisite:* NFS 361. Students will have an opportunity to understand franchising and its role in the hospitality industry. Various franchise systems will be analyzed for marketing effectiveness and financial performance. Differences between entrepreneurship and franchising will be presented. Students will also learn how to select a franchise.

**NFS 430**  
**MANAGEMENT AND MARKETING OF SERVICES**  
3, 3/0  
*Prerequisites:* NFS 300 and NFS 361.  
Students will have an opportunity to understand the service process and its role in the hospitality industry. Various service systems will be analyzed for marketing effectiveness and financial performance. Emphasis is on understanding service gaps and developing strategies for long-term survival.

**NFS 439**  
**NUTRITIONAL BIOCHEMICAL ANALYSIS**  
1, 0/2  
*Prerequisites:* CHE 322 and NFS 337.  
An introduction to some basic techniques used in the analysis of food, excreta, and blood in nutrition experiments. Experiments will be performed to determine the roles of nutrients such as protein, glucose, cholesterol, or ascorbic acid in human and animal metabolism.

**NFS 440**  
**APPLIED NUTRITION, PART I**  
3, 3/2; F 99, 00  
*Prerequisite:* NFS 337. *Corequisite:* CHE 322. First of three-course sequence examining the interrelationships of physiology, biochemistry, and nutrition as it relates to nutritional practice. Consideration of the role of nutrients at the cellular level with emphasis on intermediary metabolism of carbohydrate, protein, and lipid. Laboratory sessions are given on nutritional assessment including anthropometric, clinical, biochemical, and dietary with application to nutritional practice. Role of nutrition in selected conditions or disorders/diseases with emphasis on rationale of nutrition emphasized.

**NFS 442**  
**APPLIED NUTRITION, PART II**  
4, 3/2; Sp 00, 01  
*Prerequisite:* NFS 440. *Corequisite:* NFS 446. Second of a three-course sequence examining the interrelationships of physiology, biochemistry, and nutrition as it relates to nutritional practice. Emphasis will be given to the role of nutrition in treating and preventing diseases/disorders: diabetes mellitus, hypoglycemia, cardiovascular, gastrointestinal, biliary, pancreatic, and musculo-skeletal.

**NFS 443**  
**APPLIED NUTRITION, PART III**  
4, 3/2; F 99, 00  
*Prerequisite:* NFS 442. *Corequisite:* NFS 447. Third part of a three-course sequence examining the interrelationships of physiology, biochemistry, and nutrition as it relates to nutritional practice. Emphasis will be given to the role of nutrition in treating and preventing diseases/disorders: malnutrition, stress states, nutritional support, renal, cancer, liver, chronic obstructive pulmonary disease, and HIV/AIDS.

**NFS 444**  
**COMMUNITY NUTRITION**  
3, 2/2  
Nutrition as a component of health care is viewed and discussed through the various nutrition services provided for individuals and groups throughout the life cycle within a community.

**NFS 445**  
**NUTRITIONAL CARE A**  
3, 0/9; F 99, 00  
*Prerequisite:* NFS 337. *Corequisite:* NFS 338. Clinical dress required. This course is the first of a series of nutritional care courses promoting professional development of the student for dietetic practice. The emphasis of study is on basic skills for a professional role and application of normal nutrition knowledge. Development of basic interviewing skills, utilization of dietary tools and techniques, planning and teaching of nutrition education classes, and applying normal nutrition knowledge is fostered through observation and practice. Clinical experiences with well individuals throughout the life span provide opportunities for students to learn and evaluate their knowledge and skills. *For Dietetic: Coordinated Program (CPD) majors only.*

**NFS 446**  
**NUTRITIONAL CARE B**  
4, 0/12; Sp 00, 01  
*Prerequisite:* NFS 445. *Corequisite:* NFS 442. Clinical dress required. The student is assigned patients in an acute care setting to correlate with Applied Nutrition II theory. The student assesses the nutritional status, defines nutritional needs, plans for nutritional care, and implements care on a beginning level after establishing criteria for evaluation of care on selected patients.

**NFS 447**  
**NUTRITIONAL CARE C**  
5, 0/15; F 99, 00  
*Prerequisite:* NFS 446. *Corequisite:* NFS 443. Clinical dress required. Opportunities for the student to learn, refine, apply knowledge and skills in providing nutritional care for individuals (adults and children) with acute and chronic nutritional problems or diseases.

**NFS 448**  
**NUTRITIONAL CARE D**  
5, 0/15; Sp 00, 01  
*Prerequisites:* NFS 443 and NFS 447.  
The emphasis is placed on the student's ability to provide nutritional care to groups of patients. On an assigned hospital patient unit, the student learns to establish priorities among activities that must be accomplished to provide that care. The student integrates pertinent information regarding an individual patient with theoretical knowledge to develop an appropriate nutritional care plan. The student makes appropriate use of available resources. By the completion of this course, the student is able to provide the appropriate level of nutritional care to patients independently, and in concert with the existing nutritional care system.

**NFS 449**  
**NUTRITIONAL CARE E (NUTRITIONAL CARE OF LONG-TERM PATIENTS)**  
2, 0/6; Sp 00, 01  
*Prerequisites:* NFS 443 and NFS 447.  
Clinical dress required. Provides a basic understanding of long-term care as a health delivery system. Students participate in providing nutritional care to chronically ill patients in a long-term care facility.

**NFS 450**  
**SENIOR PRACTICUM IN DIETETICS**  
4, 0/12; Sp 00, 01  
*Prerequisites:* NFS 447 and consent of clinical faculty. The student, under guidance, plans, implements, and evaluates professional practice goals in a selected area of dietetic practice such as an acute-care specialty practice, long-term care, nutrition education, and community services programs. Ability to function under minimal supervision is required.

**NFS 451**  
**SPECIALITY PRACTICE**  
1, 0/3; Sp 00, 01  
*Prerequisite:* NFS 443 and NFS 447.  
The student participates in dietetic practice for selected areas.

**NFS 452**  
**DIETARY MODIFICATION IN DISEASE, PART I**  
4, 4/0; F 99, 00  
*Prerequisites:* CHE 322 and NFS 337.  
This is the first of a two-part course sequence which examines the physiological basis for diet modification in disease/disorder states. Strong emphasis is placed on normal metabolism of nutrients, deviation from normal metabolism in disease, and the nutrition support and dietary modifications required in disease/disorder states.

**NFS 453**  
**DIETARY MODIFICATION IN DISEASE, PART II**  
4, 4/0; Sp 00, 01  
*Prerequisite:* NFS 452. This is the second of a two-part course sequence which examines the physiological basis for diet modification in disease/disorder states. Strong emphasis is placed on normal metabolism of nutrients, deviation from normal metabolism in disease, and the nutrition support and dietary modifications required in disease/disorder states.

**NFS 455**  
**ADVANCED HUMAN RESOURCE IN HOSPITALITY**  
3, 3/0  
*Prerequisite:* NFS 361. An exploration of strategies utilized by the food service manager to create a more effective work environment. Application of advanced human

resource concepts useful in problem solving and decision making needed in a diverse and competitive hospitality industry.

**NFS 460**  
**CONCEPTS IN STRATEGIC MANAGEMENT**  
3, 3/0  
*Prerequisites:* NFS 370 and NFS 390.  
Students will be presented the concepts of strategic planning process, strategy implementation, and strategic control in the hospitality industry. Students will learn the importance of environmental scanning in strategic management. An opportunity to analyze cases from the hospitality industry will be offered.

**NFS 462**  
**MANAGEMENT OF FOOD SERVICE OPERATIONS**  
4, 4/0; Sp 00, 01  
*Prerequisite:* NFS 361. Focuses on food service systems and related subsystems including an in-depth analysis of the procurement process, menu development, food production and delivery, quality standards, and financial management.

**NFS 468**  
**PRINCIPLES OF QUALITY IMPROVEMENT**  
2, 2/0; Sp 00, 01  
*Corequisite:* NFS 462. Students will learn about quality improvement, originating in the business sector and founded on the work of W.E. Deming. These quality improvement concepts will then be applied to the management of a nutritional care service department, emphasizing both food production management and clinical management.

**NFS 470**  
**LEGAL ISSUES IN HOSPITALITY**  
3, 3/0; F 99, 00  
*Prerequisites:* NFS 100, NFS 361, NFS 380, and NFS 390. An overview of the local, state, and federal laws and regulations which promote policies for effective hospitality organizations. An opportunity for multiple case study analysis activities.

**NFS 471**  
**EXPERIENCES IN HEALTH CARE FOOD SERVICE SYSTEMS**  
3, 0/9; Sp 00, 01  
*Prerequisite:* NFS 462. The student applies knowledge and principles of food systems management in a health care facility. Emphasis is on functions of food service system, human resource management, quality assurance program, and cost analysis activities.

**NFS 475**  
**RESEARCH METHODS IN HOSPITALITY**  
3, 3/0  
*Prerequisites:* Junior standing; knowledge of word processing and statistics recommended; completion of college writing competency requirement. An introduction to the research process including the opportunity to develop a research question including testable hypotheses. Students will have the option to work with a topic of their own interest.

**NFS 480**  
**ADVANCED HOSPITALITY ADMINISTRATION**  
4, 1/6; Sp 00, 01  
*Prerequisites:* NFS 300, NFS 370, NFS 390, NFS 466, and senior standing. A culminating experience in hospitality administration in an actual food service setting which requires students to apply various theories and concepts learned in previous courses. Students will be required to develop marketing, and strategic and financial plans for a specific restaurant. Students will experience group dynamics and cultural diversity.

**NFS 485**  
**SEMINAR IN HOSPITALITY**  
1, 1/0; Sp 00, 01  
An investigation of contemporary issues relevant to the hospitality industry. Students will do research and make a presentation on a topic of their own choice.

**NFS 495**  
**PROJECT**  
*Variable credit; 1999-01*  
*Prerequisite:* Consent of instructor and department chair, using department forms available in Caudell 106A.

**NFS 499**  
**INDEPENDENT STUDY**  
*Variable credit; 1999-01*  
*Prerequisite:* Consent of instructor and department chair, using department forms available in Caudell 106A.

## PERFORMING ARTS

**Performing Arts Department**  
*Donna E. McCarthy, Chair*  
Rockwell Hall 203

**PAR 100**  
**THE LIVELY ARTS**  
3, 3/0; offered based on staff availability CA  
Through lectures, reading, and live and recorded performances, the student is

introduced to the world of the performing arts. Extensive concert attendance required.

**PAR 200**  
**PERFORMANCE LABORATORY**  
1, 0/3; 1999-01 CA  
Repeatable three times for credit. A laboratory experience in the performing arts chosen through faculty consultation dependent upon the interests and previous experiences (if any) of the student.

**PAR 325**  
**THE BUSINESS OF PERFORMING ARTS**  
3, 3/0; offered based on staff availability  
A comprehensive overview of the numerous aspects of business relating to the performing arts of drama, dance, and music.

**PAR 350**  
**THE AMERICAN MUSICAL**  
3; 3/0; offered based on staff availability  
A historical study of the American musical focusing on the interrelationships between the disciplines of music, theater, and dance.

**PAR 495**  
**PROJECT**

**PAR 499**  
**INDEPENDENT STUDY**

## PHILOSOPHY AND RELIGIOUS STUDIES

**Philosophy and Religious Studies Department**  
*George T. Hole, Chair*  
Bishop Hall 231

**PHI 101**  
**INTRODUCTION TO PHILOSOPHY**  
3, 3/0; 1999-01 CH  
An introduction to the literature and problems of philosophy.

**PHI 102**  
**INTRODUCTION TO MORAL AND SOCIAL PHILOSOPHY**  
3, 3/0; 1999-01 CH  
An examination of various views about how we ought to live and how society should be organized. These views will be considered in the context of discussions about the good life and the good society. Sample questions are: Does virtue lead to happiness? Under what conditions can punishment be justified?

**PHI 103**  
**INTRODUCTION TO LOGIC**  
3, 3/0; 1999-01 CH  
An introduction to practical reasoning and argument relevant to everyday life. Among the subjects covered are uses of language, informal fallacies, elementary deductive arguments, and the nature of scientific thinking.

**PHI 104**  
**INTRODUCTION TO RELIGIOUS STUDIES**  
3, 3/0; 1999-01 CH  
An introduction to the rational study of religion. Religious practices and philosophies will be studied as well as concepts basic to religious experience.

**PHI 105**  
**INTRODUCTION TO CHRISTIAN THOUGHT**  
3, 3/0; Sp 00, 01  
A study of Christianity, the historical Jesus, his teachings, life, and action; primary sources such as the gospels, epistles, as well as excerpts from the Christian Fathers, the Monastics, Mystics, and Reformists will be used to trace the development of this thought to present society.

**PHI 121**  
**INTRODUCTION TO JEWISH THOUGHT**  
3, 3/0; F 00  
Basic Judaism; major divisions in Jewish thought and practice; Torah and the problems of practice; the epistemological basis of Jewish sectarianism; God and the problem of knowledge; God and revelation; the good life; Israel and the Nations; Jewish law, practices, and institutions; the world to come; Judaism and Christianity; Judaism and Islam.

**PHI 204**  
**PHILOSOPHY OF RELIGION**  
3, 3/0; F 99, 00 CH  
A critical analysis of the philosophical assumptions that support religious belief. The course will focus on some of the problems arising from philosophical assumptions such as God's existence, omnipotence, omniscience, foreknowledge, and the existence of evil.

**PHI 205**  
**INTRODUCTION TO THE OLD TESTAMENT**  
3, 3/0; F 99  
An introduction to the Old Testament which investigates the backgrounds and the cultures out of which it grew, the philosophies in it, and the kinds of literature it contains.

**PHI 207**  
**PHILOSOPHY IN LITERATURE**  
3, 3/0; F 99, 00 CH  
An examination of the relation of philosophy to literature through a consideration of the nature of language, the



methods of language analysis, the relation of knowledge to fiction, and the function of myth and metaphor in presenting philosophical ideas. Each semester a number of works of literature are read and analyzed for philosophical content.

**PHI 210  
EXISTENTIALISM**  
3, 3/0; Sp 00, 01

A consideration of the problem of the meaning and value of life in a context of various philosophical and literary works of religious and nonreligious existentialists, including Kierkegaard, Nietzsche, Heidegger, and Sartre.

**PHI 212  
HISTORY OF  
AMERICAN PHILOSOPHY**  
3, 3/0

An introduction to the major figures and salient ideas of American philosophers from the time of the Puritans to the early twentieth century.

**PHI 300  
PROBLEMS OF PHILOSOPHY**  
3, 3/0

An analysis of selected problems in epistemology, metaphysics, ethics, and certain movements in contemporary philosophy.

**PHI 301  
WEALTH AND JUSTICE**  
3, 3/0; F 99, 00

*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. An examination of the moral presuppositions and justifications of forms of governments and economic systems as well as the interrelations between government and economics.

**PHI 302  
PHILOSOPHY OF  
ART AND BEAUTY**  
3, 3/0; F 00  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. An analysis of the basic concepts presupposed in any critical examination of the arts, including painting, literature, and music.

**PHI 303  
WOMEN AND RELIGION**  
3, 3/0; F 00 G  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. An introduction to the global study of women and religion with special attention to their contributions to religious thought and practice. Women's spirituality and its effects in the developed and developing world will be stressed.

**PHI 304  
PHILOSOPHY OF LAW**  
3, 3/0; Sp 00, 01  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. A general inquiry into the nature and justification of legal institutions, with special emphasis on the problem of legal punishment and on the legal enforcement of morality.

**PHI 305  
ANALYTIC PHILOSOPHY I:  
PHILOSOPHY OF LANGUAGE**  
3, 3/0; Sp 00, 01  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. An examination of recent works by analytical philosophers in the foundations of language. Such topics as meaning, reference, and necessity will be covered.

**PHI 306  
WRITINGS OF JOHN**  
3, 3/0; Sp 00, 01  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. The historical and literary backgrounds of St. John's Gospel, the letters of John, and the Book of Revelation will be studied. Emphasis will be placed on the content of the Gospel itself, its major theological themes, and its distinctive contributions to Christian thought.

**PHI 307  
BEGINNING SYMBOLIC LOGIC**  
3, 3/0; Sp 01 CH  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. First order logic as a system for understanding argumentation in ordinary language; the structure and use of truth-functional logic and quantification theory, including identity, will be covered.

**PHI 308  
PHILOSOPHY OF LOVE AND SEX**  
3, 3/0  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. An examination of classic and contemporary philosophic theories of the nature, value, and purpose of human love and sexuality, including such thinkers as Plato, Aquinas, Ortega, Sartre, and Kierkegaard. The course will also focus on the nature and validity of the value judgments implicit in the concepts of "super-vision," "good sex," and "true love," as well as problems encountered in finding clear definitions for such terms. Certain moral arguments found in such areas as abortion and marital intercourse will be considered.

**PHI 310  
THE HISTORY OF ETHICS**  
3, 3/0; F 99 CH  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. A historical study of the great western writers on ethics as they examine questions about self-interest, freedom, duty, and happiness in regard to the moral life. Writings will be selected from the texts of Plato, Aristotle, Kant, Mill, Hume, and others.

**PHI 312  
ANALYTIC PHILOSOPHY II:  
PHILOSOPHY OF MIND**  
3, 3/0; F 99, 00  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. Investigation of recent work by analytic philosophers in the philosophy of mind. Among questions to be considered: What validates an inference from bodily states to mental ones, or vice versa? What are the criteria for personal identity? Are we machines that think?

**PHI 314  
CONTEMPORARY  
ETHICAL THEORY**  
3, 3/0; F 00  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. A historical and analytical study of important developments in twentieth-century ethical theory; to include Naturalism, Noncognitivism, Prescriptivism, Rationalism, and the ideas of Rawls, Nozick, Gauthier, and Gewirth.

**PHI 317  
THE HISTORY OF  
PHILOSOPHY I: THE GREEKS**  
3, 3/0; F 99, 00 CH  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. Readings in selected original texts of the leading philosophers of ancient Greece, specifically Heraclitus, Parmenides, Plato, Socrates, and Aristotle. The course will concentrate on developing the original visionary contributions of each thinker to the intellectual development of western thought.

**PHI 318  
THE HISTORY OF PHILOSOPHY II:  
THE SEVENTEENTH AND  
EIGHTEENTH CENTURIES**  
3, 3/0; Sp 00, 01  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. Readings in selected original texts from Hobbes, Locke, Berkeley, Hume, Descartes, and Kant. The course will concentrate on elucidating the original visionary contribution of each thinker

to the intellectual development of western thought. Learning how to read a philosophical work will be a key part of what is required.

**PHI 319  
MEDIEVAL PHILOSOPHY**  
3, 3/0  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. An examination of some central philosophical ideas developed by medieval philosophers and the relationships of those ideas to their use and development by modern and contemporary philosophers. Emphasis will be placed on the original writings of such philosophers as Augustine, Boethius, Damian, Anselm, Bonaventure, and Aquinas.

**PHI 321  
WORLD RELIGIONS**  
3, 3/0; 1999-01 GCH  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. A study of various religions such as Hinduism, Buddhism, Taoism, Shinto, Confucianism, Judaism, Christianity, and Islam, together with Native American, African, Samoan, and Aboriginal Australian religion.

**PHI 323  
MORAL ISSUES**  
3, 3/0; 1999-01 CH  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. An examination of contemporary moral issues. Several moral theories will be analyzed in order to provide a foundation for examining specific moral problems. Moral issues related to genetic engineering, war and peace, discrimination, censorship, etc., will be examined.

**PHI 324  
ZEN BUDDHISM**  
3, 3/0; Sp 00, 01  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. An examination of Zen as a paradoxical method by means of which a person's suffering of existence is transformed into everyday enlightenment. Contemporary practices of Zen will be studied as well as its historical origins in Buddha's "complete and unexcelled" enlightenment, and in Lao Tzu's living in harmony with the Tao.

**PHI 326  
THE NEW TESTAMENT**  
3, 3/0; F 00  
An introduction to the study of the New Testament with emphasis on the literary content, the societies from which it emerged, the structures and varieties of the literatures contemporaneous with it, and the tools necessary for understanding it.

**PHI 327  
AESTHETICS AND THE ARTS**  
3, 3/0  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. Some major concepts and theories selected from the philosophy of art applied to some major works of art selected each semester from some but not all of the following fields: architecture, dance, drama, film, music, painting, and sculpture.

**PHI 328  
BUSINESS AND ETHICS**  
3, 3/0; Sp 00, 01  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. An examination of moral problems many business professionals face in their working experience. Several moral theories will be analyzed in order to provide a theoretical foundation for examining specific, moral problems. Moral problems related to advertising, ecology, and pollution, the pricing of goods and services, bribery, etc., will be examined.

**PHI 329  
CONTEMPORARY  
CHRISTIAN THOUGHT**  
3, 3/0  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. An examination of worship, ministry, and theology of various Christian traditions in the context in which they developed from the sixteenth to the twentieth centuries. The course will also consider some contemporary challenges to Christianity.

**PHI 331  
RELIGION AND MEDIA**  
3, 3/0  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy or communication. Religious issues and events will be discussed from the viewpoint of print journalism and broadcast media. Sectarian newswriting and media presentations as well as techniques and sources for interviews will be analyzed.

**PHI 332  
MYSTICISM**  
3, 3/0; Sp 00, 01  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. An introduction to some of the major mystical disciplines of the world and their underlying philosophies, such as Zen, Christian, Jewish, Sufi, European, Far Eastern, African, and Native American mysticism.

**PHI 339  
FRIENDSHIP**  
3, 3/0; F 99  
An examination of various conceptions of what friendship is, its value to friends and others, its moral justifications and the legitimacy of preferring friends to others.

**PHI 350  
HOLOCAUST**  
3, 3/0  
*Prerequisites:* Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy. This course will examine the facts of the Holocaust (Europe 1933-1945) against the background of Jewish religious thought and religious thought in general, with special attention to how the Holocaust has affected present religious and philosophical thinking.

**PHI 401  
PROBLEM IN  
PHILOSOPHY SEMINAR**  
3, 3/0  
*Prerequisite:* Junior or senior standing, or one course in philosophy. Intensive analysis of selected topics in philosophy.

**PHI 402  
SEMINAR IN HISTORY  
OF PHILOSOPHY**  
3, 3/0; Sp 00, 01  
*Prerequisites:* Completion of ENG 102 requirement, PHI 317, and PHI 318. Intensive study of figures and periods in the history of Western and Eastern philosophy.

**PHI 488  
INTERNSHIP**  
1-3; Sp 00, 01  
*Prerequisites:* Junior or senior standing, 2.5 GPA or higher, with at least one-third of the philosophy major or religious studies minor coursework completed. Internship programs provide students with supervised field experiences (experiential learning). An internship shall consist of supervised on-site activities for qualified students and an academic component consisting of training sessions, seminars, and reports.

**PHI 495  
PROJECT**

**PHI 499  
INDEPENDENT STUDY**

## PHYSICS

**Physics Department**  
*Dewayne A. Beery, Chair*  
Science Building 271B

The Physics Department offers courses of general interest such as PHY 100, PHY 103, and PHY 200, as well as technical courses for students who plan to major in all sciences.

**PHY 100  
PHYSICS FOR  
NON-SCIENCE MAJORS**  
3, 3/0 CM  
A non-mathematical consideration of historical world views in physics and their relevance to society. May not be substituted for PHY 107, PHY 108, PHY 111, PHY 112.  
*Not open to majors.*

**PHY 103  
UNDERSTANDING SOUND**  
3, 3/0 CM  
A non-mathematical consideration of sound and noise. Discussion of musical sounds, noise pollution, fidelity of sound reproduction, and other topics related to the quality of the audible environment. Designed for non-science majors. May not be substituted for PHY 107, PHY 108, PHY 111, PHY 112.  
*Not open to majors.*

**PHY 107  
GENERAL PHYSICS I**  
3, 2/2 CM  
Algebra-based study of mechanics, heat, wave motion, and sound; selection of laboratory experiences based on lecture material.  
*Not open to majors.*

**PHY 108  
GENERAL PHYSICS II**  
3, 2/2 CM  
*Prerequisite:* PHY 107. Algebra-based study of light, electricity, and magnetism; circuits and optics; selection of laboratory experiences based on lecture material.  
*Not open to majors.*

**PHY 111  
UNIVERSITY PHYSICS I**  
4, 3/2 CM  
A calculus-based treatment for science majors of particle mechanics, dynamics, rotational motion, and equilibrium concepts, with an introduction to gravitation and oscillations. Includes laboratory.  
*Required for majors.*

**PHY 112  
UNIVERSITY PHYSICS II**  
4, 3/2 CM  
*Prerequisite:* PHY 111 or equivalent. A continuation of PHY 111; a calculus-

based introduction to heat, electricity, magnetism, and optics. Includes laboratory.  
*Required for physics majors.*

**PHY 200  
CREATORS OF THE ATOMIC AGE**  
3, 3/0; Sp 00, 01 CM  
Conceptual analysis of ideas and contributions of the physicists related to the development of nuclear energy and weapons. The what, how, and why of both military and civilian applications. Designed for non-science majors and includes multimedia presentations.

**PHY 213  
UNIVERSITY PHYSICS III**  
3, 3/0; F 99, 00  
*Prerequisite:* PHY 112 or equivalent. A continuation of PHY 111 and PHY 112; a calculus-based introduction to physical optics, kinetic theory, classical wave motion, and interference phenomena; introduction to special relativity.  
*Required for physics majors.*

**PHY 305  
MODERN ATOMIC PHYSICS**  
4, 4/0; Sp 00, 01  
*Prerequisite:* PHY 111-112 or equivalent, and calculus. Wave particle duality and atomic spectra and structure. Introductory concepts of quantum theory; selected topics in nuclear, atomic, and solid state physics.  
*Required for physics majors.*

**PHY 308  
OPTICS**  
3, 3/0  
*Prerequisites:* PHY 111-PHY 112 or equivalent, and calculus. Fundamentals of geometrical and physical optics, the nature and propagation of light; Fraunhofer and Fresnel diffraction, polarization; and single, double slit and grating diffraction, lasers, and holography.

**PHY 310  
COMPUTATIONAL  
PHYSICS LABORATORY**  
2, 0/4; F 99, 00  
*Prerequisites:* PHY 111-PHY 112. *Corequisite:* PHY 213. An introduction to several basic computational techniques using physics material chosen from intermediate physics courses.

**PHY 315  
HEAT AND THERMODYNAMICS**  
3, 3/0; F 99, 00  
*Prerequisites:* PHY 111-PHY 112 or equivalent, and calculus. First, Second Laws, entropy, chemical potential, enthalpy, free energy, Gibbs function, Maxwell relations, phase transitions, and statistical mechanics of classical and quantum distributions.  
*Required for B.S. physics majors.*



**PHY 320**  
**INTRODUCTION TO THEORETICAL PHYSICS**  
4, 4/0; Sp 00, 01

*Prerequisites:* PHY 111-PHY 112 plus MAT 263. Introduction to advanced mathematical applications; partial differential equations, complex numbers, special functions, boundary value problems, orthogonal functions and expansions, matrices, and integral transform techniques.  
*Required for B.S. physics majors.*

**PHY 325**  
**ELECTRONICS**  
3, 0/6; F 99, 00

*Prerequisites:* PHY 320 and junior standing. Principles of filters and resonant circuits, semiconductor devices, and integrated circuit chips. Analog and digital lab work included.  
*Required for B.S. physics majors.*

**PHY 403**  
**X-RAYS**  
3, 3/0

*Prerequisites:* PHY 111-PHY 112 or equivalent. Production and measurement of x-rays; absorption and wave properties; Bragg's Law and crystal lattices; emissions and absorption spectra; scattering.

**PHY 410**  
**ADVANCED PHYSICS LABORATORY**  
2, 0/4

*Prerequisite:* PHY 305 or equivalent. Selected experiments chosen from the area of mechanics, heat, sound, light, electricity and magnetism, and modern physics.  
*Required for physics majors.*

**PHY 412**  
**PHYSICS SEMINAR**  
1, 1/0

*Prerequisites:* 15 credits in physics and MAT 162 or equivalent. Readings, reports, and discussion of current job opportunities and/or problems and research in physics. This course may be taken three times.

**PHY 425**  
**CLASSICAL MECHANICS**  
4, 4/0

*Prerequisite:* PHY 320 or equivalent. Vectorial particle mechanics in one, two, and three dimensions; rigid body motions in three dimensions; motion in central force fields; moving reference frames, forced harmonic oscillators, and an introduction to mechanics in Lagrangian and Hamiltonian formulation.  
*Required for physics majors.*

**PHY 435**  
**INTRODUCTION TO QUANTUM PHYSICS**  
3, 3/0

*Prerequisites:* PHY 305, PHY 320, or equivalent. Postulates of quantum mechanics with selected examples;

includes uncertainty principle, operator formalisms, Heisenberg and Schrodinger representations, angular momentum, and spin.  
*Required for B.S. physics majors.*

**PHY 440**  
**ELECTRICITY AND MAGNETISM I**  
3, 3/0

*Prerequisites:* PHY 320, MAT 263, or equivalent. Coulomb forces, electric fields, and potentials. Laplace Equation, boundary value problems, and dielectrics. Multipole distributions and magnetic induction, with an introduction to Maxwell's equations.  
*Required for B.S. physics majors.*

**PHY 441**  
**ELECTRICITY AND MAGNETISM II**  
3, 3/0

*Prerequisite:* PHY 440. This course is a continuation of PHY 440. Vector potentials, Faraday's Law, magnetism, electromagnetic wave propagation, and radiation.

**PHY 445**  
**NUCLEAR PHYSICS**  
3, 3/0

*Prerequisites:* PHY 305, PHY 320, or equivalent. The basic properties of nucleons and nuclei, radioactivity, detectors, the interaction of nuclear radiation with matter, nuclear reactions, nuclear models and gamma emission, and an introduction to high-energy physics.

**PHY 448**  
**INTRODUCTION TO SOLID STATE PHYSICS**  
3, 3/0

*Prerequisite:* PHY 320 or equivalent. Theory of the structure of solids; unit cell, lattice dynamics and phonons, specific heats, band theory, superconductivity, electron dynamics, and statistics.

**PHY 450**  
**SUPERVISED PHYSICS LABORATORY TEACHING**  
1-2, 0/2-4

*Prerequisites:* Junior or senior standing in physics, 3.25 GPA in major, 3.0 GPA overall. Approval of physics faculty based on academic performance, maturity, and potential. A supervised in-classroom introduction to college laboratory teaching techniques and procedures for selected, qualified upper-division physics majors.

**PHY 495**  
**PROJECT**  
1-3; 0/2-6

*Prerequisite:* Approval of a faculty sponsor must be secured prior to registration. Physics and physics-related areas.

**PHY 499**  
**INDEPENDENT STUDY**  
3-6; 0/6-12

*Prerequisite:* Approval of a faculty sponsor must be secured prior to registration. Physics and physics-related areas.

## POLITICAL SCIENCE

**Political Science Department**  
*Anthony Neal, Chair*  
Classroom Building B218

**PSC 101**  
**INTRODUCTION TO GOVERNMENT AND POLITICS**  
3, 3/0; 1999-01 CS

Survey of the nature and the scope of political science; ideological foundations of politics; comparative study of the governments of constitutional, totalitarian, and developing systems; the dynamics of politics and functions of political institutions.

**PSC 102**  
**INTRODUCTION TO AMERICAN GOVERNMENT**  
3, 3/0; 1999-01 CS

The Constitution and its principles; functions and roles of the federal executive, legislative, and judicial branches; citizen participation; problems of individual liberty and governmental authority; problems of national security, economic regulation, and social welfare.

**PSC 103**  
**GREAT POLITICAL ISSUES**  
3, 3/0; offered based on staff availability CS

Examination of some of the great political issues such as ideology, freedom, equality, political obligation, civil disobedience, law, and morality.

**PSC 210**  
**THE AMERICAN PRESIDENCY**  
3, 3/0; F 00

Examination of the contemporary presidency; constitutional roles; political powers and the factor of personality; the executive and other political and social institutions; problems and prospects for the presidency in the last decade of the twentieth century.

**PSC 215**  
**URBAN GOVERNMENT**  
3, 3/0; Sp 00, 01 CS

An introduction to the political economy of urban areas in the United States. Focus on explanation of current urban public policies through study of such topics as public vs. private political power; bureaucracy; citizen organization.

**PSC 218**  
**AFRICAN-AMERICAN POLITICAL CULTURE**  
3, 3/0; F 99, 00 DCS

An urgent evaluation and critical reevaluation of political beliefs, attitudes, and practices that pertain to African-American politics in the cultural context; focus on the causality and linkage inherent in the reciprocal relationship between African-Americans and the American political system.

**PSC 220**  
**THE DEVELOPMENT OF AMERICAN CONSTITUTIONAL LAW**  
3, 3/0; offered based on staff availability

Foundations of American constitutionalism; judicial review and its use through history; the Supreme Court's interaction with Congress, the president, and states; evolving concepts of federalism; development of civil rights and liberties policies.

**PSC 225**  
**WOMEN IN AMERICAN POLITICS**  
3, 3/0; Sp 00 DCS

Defines influences on female participation in the American political system; analyzes the political behavior of American women; and examines the implications of these influences and behaviors.

**PSC 230**  
**INTERNATIONAL RELATIONS**  
3, 3/0; F 99, 00 GCS

Examination of elements of national power, religion and global balance of power and collective security systems, instruments of international politics-diplomacy, propaganda and war, forces of nationalism.

**PSC 240**  
**EUROPEAN POLITICAL SYSTEMS**  
3, 3/0; Sp 00, 01 CS

Examination of the structure and dynamics of politics in the major European countries with emphasis on political behavior and political processes. Discussion of issues of economic and political integration.

**PSC 300**  
**POLITICAL ANALYSIS**  
3, 3/0; 1999-01

Systematic study of the design, execution, and interpretation of research in the several fields of political science; emergence and development of the discipline; common assumptions and controversies.

*Required for all political science majors.*

**PSC 306**  
**POLITICS OF ENERGY**  
3, 3/0; offered based on staff availability

Study of the energy situation in both the U.S. and the international com-

munity from political viewpoints; analyze the U.S. energy policy and process and strategies within their economic, physical, and political settings; and examine the issues of conflict and cooperation among nations over the rational utilization of energy resources.

**PSC 309**  
**POLITICS OF INTERNATIONAL BUSINESS**  
3, 3/0; F 99, 00 G

A study of the international economy of business. This international relations course focuses on trade, monetary, and technology policies of countries; transfer of capital and human resources; international organizations of economic policies.

**PSC 310**  
**AMERICAN POLITICAL PARTIES**  
3, 3/0; F 99, 00

The American two-party system; suffrage rules and the electoral process; shifting patterns of organization, nomination, and finance; the role of party in government; and parties in the future of American politics.

**PSC 311**  
**INTEREST GROUPS**  
3, 3/0; F 99, 00

Introduction to the political process as practiced in democratic systems; the methods and operations of various interest groups; and the roles played by citizen groups involved.

**PSC 312**  
**LEGISLATIVE PROCESS**  
3, 3/0; Sp 00

An examination of the state and national legislatures with emphasis on the determinants of legislative decision making, the committee system, and the policy outputs of the legislative branch.

**PSC 315**  
**STATE AND LOCAL GOVERNMENT POLITICS**  
3, 3/0; Sp 00, 01

Functions of state and local governments; constitutional and governmental structures; inter-governmental relations; decision making, effects of metropolitanization; contemporary issues and problems; future trends and prospects.

**PSC 316**  
**URBAN ETHNIC POLITICS**  
3, 3/0; F 99, 00 D

Study of the political life of ethnic groups in urban areas of the United States. Includes consideration of a number of both white immigrant and "third world" groups including Irish, Italian, Polish, African-American, and Native American. Emphasis on contemporary patterns of organization, leadership, strategy, and participation, and

on relations among ethnic groups, and between ethnic groups and both local and national government.

**PSC 319**  
**LESBIAN AND GAY CITIZENSHIP POLITICS IN THE UNITED STATES**  
3, 3/0; Sp 00 D

Provides a cross-cultural, longitudinal perspective of U.S. lesbian/gay liberation movements and interest-based organizations and their intersection with civil rights and women's liberation movements and organizations; examines queer legal theory, human rights and constitutional issues surrounding lesbian/gay rights; explores emergence of cultural coherence and ethics in community life.

**PSC 320**  
**U.S. CONSTITUTION/ CIVIL LIBERTIES**  
3, 3/0; Sp 00, 01

In-depth study of the legal principles influencing the origin and development of our criminal laws and the way these principles have evolved by court interpretation to accommodate social change and attitudes over the years. The Bill of Rights and "due process" clause of the United States Constitution will be the focal point of this course. Alternate course selection to PSC 420.

**PSC 325**  
**POLITICS OF WELFARE**  
3, 3/0; Sp 00, 01

To provide the student with knowledge and insight into America's mixed system of capitalism and socialism; to introduce the student to many of our major welfare programs including Social Security, veterans' benefits, tax expenditures, food stamps, subsidized education, military retired pay, etc.; to analyze the costs and benefits of America's welfare system.

**PSC 326**  
**POLITICS AND MEDIA**  
3, 3/0; 1999-01

Examines the relationship between the mass media and contemporary American politics. It analyzes the impact of the media on voting behavior and focuses on the role of the media in the presidential and congressional elections.

**PSC 327**  
**PRACTICAL POLITICS**  
3, 3/0; offered based on staff availability

*Prerequisite:* Consent of instructor prior to registration. A non-classroom structured activity which allows students to receive college credit while participating in a meaningful way in politics. Activities include participation in quasi-political organizing as well as in campaigns and elections.

**PSC 330**  
**AMERICAN FOREIGN POLICY**  
3, 3/0; Sp 00, 01

Analysis of basic ideas that shape American foreign policy; isolationism; domestic and international pressures; cold war, peaceful coexistence and detente; major area problems.

**PSC 333**  
**AFRICAN INTERNATIONAL RELATIONS**  
3, 3/0; F 99, 00

Examination of African international politics vis-à-vis international relations theory, models, and concepts. Included in such an examination would be the following: power, multipolarity, bipolarity, pan-Africanism, North-South debate, approaches to international politics, and state and international organizations as international actors.

**PSC 335**  
**INTERNATIONAL RELATIONS OF THE MIDDLE EAST**  
3, 3/0; offered based on staff availability G

Study of the patterns of interaction within the Middle East and with other states; problems of security and peace in the region; ideology, nationalism, and economic interests as factors influencing the behavior of the states.

**PSC 340**  
**POLITICS OF DEVELOPING COUNTRIES**  
3, 3/0; F 99, 00 GCS

Comparative analysis of the major problems of the developing countries; political process and its relation to societal transformation; political processes; the role of the army and bureaucracy in political development; problems of nation-building and democracy in developing countries.

**PSC 345/HIS 313**  
**POLITICS AND HISTORY OF THE MIDDLE EAST**  
3, 3/0; offered based on staff availability CS

Analysis of the geographic, cultural, and political settings; historical development since the nineteenth century; the disintegration of the Ottoman Empire and Western colonialism; nationalism, independence, and turmoil; Arab-Israeli question, oil, its impact and problems; great power and inter-area politics.

**PSC 350**  
**INTRODUCTION TO LEGAL THOUGHT**  
3, 3/0; 1999-01

An examination of the main concepts, theories, and issues that constitute the framework of legal thought, such as the nature of law, the nature of legal reasoning, the limits of law, and the justification of punishment.

**PSC 351**  
**HISTORY OF WESTERN POLITICAL THEORY I**

3, 3/0; offered based on staff availability

An exposition and critical analysis of the main problems of political theory by an examination of the writings of major political thinkers from Plato to Aquinas.

**PSC 352**  
**HISTORY OF WESTERN POLITICAL THEORY II**  
3, 3/0; offered based on staff availability

An exposition and critical analysis of the main problems of political theory by an examination of the writings of major political thinkers from Machiavelli to Marx.

**PSC 355**  
**AMERICAN POLITICAL THOUGHT**  
3, 3/0; F 99, 00

This is a survey of American political thought from colonial to contemporary time. The main emphasis will be on the development of political values and beliefs that have persisted; how interpretations and applications of these values and beliefs have changed through different periods; and the roots of contemporary American political culture and ideology.

**PSC 360**  
**PUBLIC ADMINISTRATION**  
3, 3/0; F 99, 00

Introduction to the study of public administration; analysis of the relations of government administration in its social, economic, and political settings; the role of public administration in formulating public policy; organization and management in public services; personnel and financial management.

**PSC 364**  
**AMERICAN PUBLIC POLICY**  
3, 3/0; Sp 00, 01

An examination of governmental policy with emphasis on the sources of policy, the policy-making process in national political institutions, and the social impact of policy choices.

**PSC 368**  
**COMPARATIVE PUBLIC ADMINISTRATION**  
3, 3/0; Sp 00, 01 GCS

An introduction to the cross-cultural, cross-national, or cross-institutional study of public administration institutions and practices. Particular emphasis is given to the administrative systems of European countries and to the processes of administrative change in developing countries. The evolution of bureaucracy is also explored.



**PSC 370**  
**CANADIAN PUBLIC ADMINISTRATION**  
3, 3/0; offered based on staff availability

A survey of Canadian public administration institutions and processes and the development of public policy. Particular emphasis is placed on the federal level with secondary attention to provincial and local administration and policy. Similarities and differences with other administrative systems—especially the United States—are explored.

**PSC 375**  
**RACE/SEX/POLITICS OF MYTH AND STORY**  
3, 3/0; offered based on staff availability D

An exploration of the institutional and human force of story in race/sex/politics; explanation of the legitimizing myths of the U.S. political system; description and elaboration of consensus in group values and standpoints in race/sex/political privilege and disadvantage.

**PSC 389**  
**TOPICS IN POLITICAL SCIENCE**  
3, 3/0; offered based on staff availability

In-depth study of current issues of substantial political significance. Several sections may be offered each semester. Recent examples: public personnel administration, defense policy, computers and political science, environmental policy. Students should consult current course listings for specific offerings.

**PSC 410/SOC 440**  
**POLITICAL BEHAVIOR AND PUBLIC OPINION**  
3, 3/0; offered based on staff availability

Conditions of democratic political behavior; opinion formation in democratic systems; voting behavior and party affiliation in the United States; mass political behavior and governmental institutions; mass political behavior in selected western European societies.

**PSC 420**  
**CONTEMPORARY CONSTITUTIONAL ISSUES**  
3, 3/0; offered based on staff availability

Examination of recent developments in American constitutional law; comparison of the Warren, Burger, and Rehnquist Courts; focus upon First Amendment liberties and rights; the rights of the accused and criminal due process; equal protection and black Americans; reapportionment and representation; the president and national security.

**PSC 450**  
**CONTEMPORARY POLITICAL THOUGHT**  
3, 3/0; offered based on staff availability

An exposition and critical analysis of the central problems of political philosophy (such as equality, freedom, justice, and political obligation) as discussed by contemporary philosophers.

**PSC 460**  
**PUBLIC POLICY AND HIV-AIDS**  
3, 3/0; Sp 00

The HIV-AIDS policy course focuses on explaining the outcomes of interaction among bureaucratic agencies, upper-level decision makers and interest representation. Students will also examine the stigma characterizing the status of persons living with HIV-AIDS.

**PSC 470**  
**SENIOR SEMINAR IN POLITICAL SCIENCE**  
3, 3/0; offered based on staff availability

*Prerequisite: Senior standing.*  
Selected topics in political science will be examined and analyzed in depth.

**PSC 495**  
**PROJECT**

**PSC 497**  
**WASHINGTON SEMINAR**

**PSC 499**  
**INDEPENDENT STUDY**

## PSYCHOLOGY

**Psychology Department**  
*Jerry F. Cataldo, Chair*  
Classroom Building C312

**PSY 101**  
**INTRODUCTION TO PSYCHOLOGY**  
3, 3/0; 1999-01

This course introduces students to the scientific study of psychology. Topics include research methodology; genetic, biological, cultural, and environmental influences on behavior; perception, learning; memory; intelligence; maturation; motivation; emotion; stress and coping; personality; social processes and psychopathology.

**PSY 205**  
**INDEPENDENT READING**  
1, 1/0; 1999-01

*Prerequisite: PSY 101 and consent of instructor.* Supervised readings on a specific topic in psychology, to be chosen by mutual agreement of the student and faculty supervisor at the time of registration.

**PSY 304**  
**LEARNING: THEORY AND RESEARCH**  
3, 2/2; 1999-01

*Prerequisite: PSY 101.* Major emphasis in this course will be on theories of learning and on the scientific investigation of the learning process rather than on the application of learning principles in education situations.

Topics will include the psychological correlates of learning, memory and attention, empirical laws and principles and their derivation from research on humans and animals, and theoretical explanations of the learning process.

**PSY 306**  
**STATISTICS IN PSYCHOLOGICAL RESEARCH**  
3, 2/2; 1999-01

*Prerequisites: PSY 101, junior standing, and completion of the basic mathematics requirement.* Intensive study of the major descriptive and inferential statistics used in psychological research. Topics include: graphic and tabular presentation of data, measures of central tendency and dispersion, probability theory, t-tests, analysis of variance, chi-square, correlation techniques, and experimental design.

*Required for psychology majors.*

**PSY 308**  
**SENSATION AND PERCEPTION**  
3, 3/0; 1999-01 CS

*Prerequisite: PSY 101.* This course covers the major facets of perceptual functioning from sensory processes to complex perceptual integrative processes. Emphasis on basic concepts such as physiological correlates of perception, empirical laws and principles, theoretical explanations of perceptual processes and their determinants.

**PSY 310**  
**BEHAVIOR MODIFICATION I**  
3, 3/0; Sp 00

*Prerequisite: PSY 101.* This course covers major learning principles as applied in behavior modification techniques. The premises, ethics, and assessment of behavioral methods of behavior control are studied. Topics include: reinforcement, extinction, punishment, modeling, and cognitive change as methods of changing human behavior.

**PSY 311**  
**PERSONALITY: THEORY AND RESEARCH**  
3, 3/0; 1999-01 CS

*Prerequisite: PSY 101.* This course will focus on the theoretical problems, methods and empirical findings related to the development of an adequate theory of personality development and function. Topics include: problems of theory construction, major theoretical approaches, personality determinants,

and personality assessment. Empirical research will be discussed and evaluated.

**PSY 321**  
**COMPARATIVE ANIMAL BEHAVIOR**  
3, 3/0; Sp 00, 01

*Prerequisite: PSY 101.* The study of animal behavior as viewed from a psychological perspective. Emphasis is placed on current theoretical models of animal behavior. Topics include: the evolution and adaptive functions of sexuality, predator-prey interactions, evolution of social organization, territoriality, dominance, aggression, learning, and instinct.

**PSY 325**  
**SOCIAL BEHAVIOR**  
3, 3/0; 1999-01 CS

*Prerequisite: PSY 101.* A theoretical and empirical examination of the role of social factors on the individual's behavior. Topics include: theory and research on attitude formation and change, affiliation, attribution process, interpersonal attraction, small group dynamics, aggression, conformity, leadership, and competition.

**PSY 327**  
**ADULT DEVELOPMENT AND AGING I**  
3, 3/0; 1999-01

*Prerequisite: PSY 101.* An introduction to how humans develop and change throughout early, middle, and late adulthood. Current psychological theory and empirical evidence concerning patterns of aging, problems of aging, and benefits of aging will be considered. Topics include: social, psychological, and biological determinants of adult development, cognitive change, personality change, family relations, life satisfaction, and the stigma of old age.

**PSY 340**  
**COGNITIVE PSYCHOLOGY**  
3, 3/0; 1999-01 CS

*Prerequisite: PSY 101.* A basic introduction and survey of the research and theoretical issues in cognitive psychology. Topics include: history of memory and thought, acquisition of information, attention, short-term and long-term memory, pattern recognition, speech perception, space perception, and higher-order mental processes.

**PSY 355**  
**LIFESPAN DEVELOPMENTAL PSYCHOLOGY**  
3, 3/0; 1999-01 CS

*Prerequisite: PSY 101.* Examines the psychological, biological and social factors that affect psychological development throughout the lifespan. Topics include: physical development, language acquisition, cognitive development, social development, personal development, morality and changing

life tasks. Attention is directed to genetic, cultural, and experiential determinants of development.

**PSY 365**  
**PSYCHOLOGY IN THE WORKPLACE**  
3, 3/0; Sp 00, 01

*Prerequisite: PSY 101.* A study of the theory and research in industrial/organizational psychology emphasizing personnel selection, classification, placement, training, and development. Work motivation, job satisfaction, factors which influence productivity, leadership, and organizational theory are also considered.

**PSY 367**  
**ORGANIZATIONAL BEHAVIOR**  
3, 3/0; F 99, 00 CS

*Prerequisite: PSY 101.* The course examines organizational behavior from a psychological perspective. Emphasis is placed on theories and methods of organizational behavior and relevant research. Topics include: issues related to behavioral research in the organizational setting, motivation, leadership, group dynamics, communication, and organization analysis and development.

**PSY 370**  
**ENVIRONMENTAL PSYCHOLOGY I**  
3, 3/0; 1999-01

*Prerequisite: PSY 101.* An introduction to the study of environmental psychology. The course examines major features of the role of physical environment on behavior. Topics include: theories of physical environment-behavior relations, research methods, territoriality, privacy, crowding, environmental perception and attitudes, pollution and behavior, buildings and behavior.

**PSY 376**  
**HEALTH PSYCHOLOGY**  
3, 3/0; 1999-01

*Prerequisite: PSY 101 and 42 additional college credits.* This course will introduce theory and empirical research in the psychology of stress, coping, and health. Topics include: introduction to health psychology, major physiological systems, components of stress, relationship of stress to health, physical and psychological consequences of stress, social support systems, coping with life crises, relaxation techniques, psychological intervention and treatment, and the holistic health model.

**PSY 382**  
**PSYCHOLOGY OF THE CONSUMER**  
3, 3/0; Sp 01

*Prerequisites: PSY 101 and 42 additional college credits.* An introduction to the field of consumer behavior from a psychological point of view. This course will emphasize psychological theory and measurement techniques as tools for understanding consumer behavior. Relevant material from

learning, perception, attitude formation, personality, and motivation as they describe consumer decision making will be presented.

**PSY 383**  
**THE PSYCHOLOGY OF HUMAN SEXUAL BEHAVIOR**  
3, 3/0; 1999-01

*Prerequisites: PSY 101 and 42 additional college credits.* This course will focus on the psychosexual aspects of human sexuality. Topics include: historical views of human sexuality, sex research, physiology of sex, gender identity, puberty, early learning of sexuality, heterosexuality, homosexuality and bisexuality, ways of sex, sexual minorities, social and legal issues of sex, portrayal and handling of sex in the media, sexual difficulties, eroticism, social psychological attitudes toward sex, and future trends of sexuality.

**PSY 385**  
**PSYCHOLOGY OF PERSONAL ADJUSTMENT**  
3, 3/0; 1999-01

*Prerequisites: PSY 101 and 42 additional college credits.* This course examines personal growth and adjustment throughout the life span, encompassing theory, research, and practical application. A broad range of topical areas include: theories of adjustment; characteristics of the healthy personality; sex roles and gender differences; interpersonal relationships; adjustments to school, work, and retirement; understanding and managing stress; human sexuality; and strategies for coping and adjustment.

**PSY 387**  
**PSYCHOLOGY OF GENDER DIFFERENCES**  
3, 3/0; F 00 D

*Prerequisites: PSY 101 and 42 additional college credits.* This course focuses on the empirical and theoretical issues concerned with the psychology of gender issues. The differences in the ways that female and males behave will be examined in terms of such social factors as conformity to societal pressures, sex-role stereotyping, and different socialization patterns for the two genders. Other topics include: biological influences on gender differences, development of sex differences, gender-role development, sex differences in cognition, personality, achievement, and leadership.

**PSY 388**  
**PSYCHOLOGY OF DEATH AND DYING**  
3, 3/0; 1999-01

*Prerequisites: PSY 101 and 42 additional college credits.* This course will provide students with an objective coverage of the relevant issues pertaining to death and dying. Topics include: the stages of dying, counseling

the dying person, attitudes of and reactions to death, psychological needs served by funeral and burial rituals, suicide, grief, bereavement, the child and death, effect of death on survivors, euthanasia, and medical and legal definitions of death.

**PSY 411**  
**ABNORMAL PSYCHOLOGY**  
3, 3/0; 1999-01

*Prerequisites: PSY 101 and PSY 311.* This course will examine the dimensions, theories, and empirical findings in psychopathology. Topics include: the concept of abnormality, problems and schemes of classification, theories of neurosis and psychosis, etiology, classification and treatment for selected disorders.

**PSY 412**  
**COMMUNITY PSYCHOLOGY**  
3, 3/0; Sp 00, 01

*Prerequisites: PSY 101 and six additional credits of psychology; PSY 411 is recommended.* This course provides a systematic coverage of the theoretical and empirical literature regarding community mental health. Topics include: historical perspectives on the community mental health movement, assessment of psychological dysfunction, levels of evaluating institutional change, consultation, and program evaluation.

**PSY 415**  
**THE COMPETENT INFANT**  
3, 3/0; Sp 00

*Prerequisites: PSY 101 and PSY 355.* The psychological world of the human infant will be the focus of the course. The primary empirical research and theoretical problems related to the field of infant development will be presented. Topics include: prenatal development; birth, sensory and motor capacities of the newborn, infant speech and language development, perceptual development, cognitive and learning processes during infancy, socialization, infant assessment, effect of early experiences.

**PSY 416**  
**ABNORMAL CHILD PSYCHOLOGY**  
3, 3/0; F 99, 00

*Prerequisites: PSY 101, PSY 355, and three credits of psychology; PSY 411 recommended.* This course will focus on the significant issues and problems related to child psychopathology. Topics include the taxonomy of childhood behavior disorders, role of the family, assessment of psychopathology in children, mental retardation, aggressive behavior, poverty and psychopathology, learning disorders, neurosis in children, childhood psychosis, developmental disorders, and therapeutic approaches.

**PSY 417**  
**THE ATYPICAL INFANT**  
3, 3/0; Sp 00

*Prerequisites: PSY 101 and PSY 355.* An introduction to the psychological effects of developmental delay in infants. Screening, assessment, and intervention of high-risk infants will be surveyed. Topics include: definition of at-risk and high-risk infants; biological traumas and defects, prenatal traumas, birth and perinatal traumas, psychological crises in infancy, psychological assessment of developmental delay in newborns and infants, early intervention for high-risk infants and their families, psychological issues of parenting the high-risk infant.

**PSY 421**  
**PHYSIOLOGICAL PSYCHOLOGY**  
3, 2/2; F 99, 00

*Prerequisites: PSY 101 and twelve credits of psychology and/or biology.* This course describes the brain, nervous system, endocrine, and immune system and their relationship to animal and human behavior. Topics include: psychosurgery, physiological basis of language, intelligence, emotion, motivation, learning, sexuality, abnormal behavior, perception, and motor behavior.

**PSY 427**  
**ADULT DEVELOPMENT AND AGING II**  
3, 3/0; Sp 00, 01

*Prerequisites: PSY 101 and PSY 327; PSY 304 recommended.* This course will introduce the student to some of the complex psychological issues pertaining to late-life development and adjustment. Theoretical and applied issues, research, methodologies, and empirical data will be studied in relation to cognitive processes, personality, self-conceptions, social contexts, clinical assessment and intervention, and cultural influences on the behavior of older adults.

**PSY 430**  
**PSYCHOLINGUISTICS: LANGUAGE STRUCTURES AND PROCESSES**  
3, 3/0; Sp 00

*Prerequisite: PSY 101 and six additional credits of psychology; PSY 340 recommended.* This course is a systematic coverage of the theoretical and empirical literature regarding human language processes. Topics include: animal versus human communication, speech production, speech perception, language acquisition, grammar, sentence production and comprehension, and the relationship between language and cognition. This course will integrate language processes into the general framework of cognitive psychology.



**PSY 432**  
**HUMAN MOTIVATION**  
**AND EMOTION**  
3, 3/0; Sp 00

*Prerequisites:* PSY 101, PSY 304, and three credits of psychology. This course examines the concept of motivation, and considers the fundamental, empirical, and logical basis for its postulation and use in psychological explanations of animal and human behavior. Emphasis is placed on what determines motives and how motivational processes interact with other psychological processes.

**PSY 441**  
**INTRODUCTION TO**  
**NEUROPSYCHOLOGY**  
3, 3/0; 1999-01

*Prerequisites:* PSY 101 and six credits of psychology. Human neuropsychology concerns itself with the study of relationships between human brain function and behavior. Students will be introduced to the functional anatomy of the brain and to the experimental and clinical techniques employed by the neuro-psychologist to uncover brain-behavior relationships. Students will be shown how observation of individuals with abnormal or injured brains provide understanding of normal human behavior.

**PSY 445**  
**HISTORY AND SYSTEMS**  
**OF PSYCHOLOGY**  
3, 3/0; 1999-01

*Prerequisites:* PSY 101 and six credits of psychology; or three credits of psychology and PHI 309. This course provides a survey of the history of the emergence of modern psychology from pre-Socratic thought to the present day. An emphasis is placed upon a systematic examination of psychology's historical roots as expressed in contemporary theories and models. *Required for psychology majors.*

**PSY 450W**  
**EXPERIMENTAL PSYCHOLOGY I:**  
**INTRODUCTION TO**  
**EXPERIMENTAL PSYCHOLOGY**  
3, 2/2; 1999-01

*Prerequisites:* PSY 101, PSY 306, and three credits of psychology. An introduction to laboratory investigation in the behavioral sciences. Topics include: higher order correlational and parametric statistics, various approaches to research, and the interpretation and communication of research findings. Laboratory experiences are included to illustrate course content. Students will be required to complete at least five laboratory exercises and reports. *Required for psychology majors.*

**PSY 453**  
**EXPERIMENTAL PSYCHOLOGY II:**  
**METHODS IN SOCIAL**  
**PSYCHOLOGY**  
3, 2/2; F 99

*Prerequisite:* PSY 450; PSY 325 recommended. This course is a continuation of PSY 450 and focuses on the research methods used in social psychology. Topics include: artifacts in social psychological research, the rights of subjects and the responsibilities of experimenters, and the problem of generalizing results to the "real" world. Students will be required to complete at least four research exercises and reports, including the formulation of at least one original experimental design.

**PSY 454**  
**EXPERIMENTAL PSYCHOLOGY II:**  
**METHODS IN PHYSIOLOGICAL**  
**AND COMPARATIVE PSYCHOLOGY**  
3, 2/2; Sp 00

*Prerequisite:* PSY 450; PSY 321 or PSY 421 recommended. This course is a continuation of PSY 450 and focuses on the research methods used in comparative and physiological psychology. Topics include: principles of behavioral observation, quantification of behavior, methods employed in the investigation of the nervous system, surgical and histological techniques, and the application of physiological methods to the understanding of behavior. Students will be required to complete at least four research exercises and reports, including the formulation of at least one original experimental design.

**PSY 455**  
**EXPERIMENTAL PSYCHOLOGY II:**  
**METHODS IN COGNITION**  
3, 2/2; F 00

*Prerequisite:* PSY 450; PSY 340 recommended. This course is a continuation of PSY 450 and focuses on the research methods used in studying cognitive processes. Topics include: short- and long-term memory, language, concept formation, and attention and thinking. Students will be required to complete at least four research exercises and reports, including the formulation of at least one original experimental design.

**PSY 456**  
**EXPERIMENTAL PSYCHOLOGY II:**  
**METHODS IN SENSATION AND**  
**PERCEPTION**  
3, 2/2; Sp 01

*Prerequisite:* PSY 450; PSY 308 recommended. This course is a continuation of PSY 450 and focuses on the research methods used in sensation and perception. Topics include: classic psycho-physical methods as well as recent advances in methodology. Emphasis will be placed on the visual modality. Students will be required to complete at least four research

exercises and reports, including the formulation of at least one original experimental design.

**PSY 457**  
**EXPERIMENTAL PSYCHOLOGY II:**  
**METHODS IN CLINICAL**  
**PSYCHOLOGY**  
3, 2/2; F 00

*Prerequisite:* PSY 450; PSY 411 recommended. This course is a continuation of PSY 450 and focuses on methods and analysis of data used in clinical research. Topics include: history of clinical psychology, ethical issues, special problems in clinical measurement and research, statistical procedures, the use of tests, case study and group designs, analogues, social interaction measures, and genetics. Students will be required to complete at least four research exercises and reports, including the formulation of at least one original experimental design.

**PSY 458**  
**EXPERIMENTAL PSYCHOLOGY II:**  
**METHODS IN DEVELOPMENTAL**  
**PSYCHOLOGY**  
3, 2/2; Sp 01

*Prerequisite:* PSY 450; PSY 355 recommended. This course is a continuation of PSY 450 and focuses on the research methods used in studying developmental psychology. Topics include: methods used in studying lifespan development in the areas of perception, learning, personality, cognition, and attention. Students will be required to complete at least four research exercises and reports, including the formulation of at least one original experimental design.

**PSY 466**  
**PERSONNEL PSYCHOLOGY**  
3, 3/0; Sp 00

*Prerequisites:* PSY 101, PSY 365 or PSY 367, and 42 additional college credits. This course will provide students with basic coverage of problems, tools, and strategies involved in applying psychological principles to personnel selection, placement, training, and assessment in organizations. Topics include: the roles of personnel psychologists, job analysis, developing performance criteria for jobs, performance appraisal, interviewing, the uses of employment testing, predicting job success, training programs, and social and ethical issues in personnel psychology.

**PSY 470**  
**ENVIRONMENTAL PSYCHOLOGY II**  
3, 3/0; F 99

*Prerequisites:* PSY 101, PSY 370, and consent of instructor. This course is a continuation of PSY 370, but at a considerably advanced level. Topics include: theory building in the area of physical-environmental behavior relations, innovative and unobtrusive measures, individual human needs in

the physical environment, and basic processes and their relationship to the physical environment.

**PSY 472W**  
**SEMINAR ON PSYCHOLOGY**  
3, 3/0; 1999-01

*Prerequisite:* PSY 101, PSY 306, PSY 450, and six credits of psychology. The specific area of psychology selected for study varies from one seminar course to another. Topical areas for each course are announced prior to student enrollment. Coursework involves the study of basic theoretical principles and empirical laws of different content areas. Students are expected to make individual presentations on relevant topics. *Required for psychology majors.*

**PSY 480**  
**PSYCHOTHERAPY: THEORY,**  
**RESEARCH, AND PROCEDURES**  
3, 3/0; F 99, 00

*Prerequisites:* PSY 101, PSY 311, and three credits of psychology; PSY 411 recommended. This course examines the contribution of psychology to the practice of psychotherapy. Theory, research, and clinical applications are presented. Topics include: the scientist-practitioner model, major theories of psychotherapy, the social impact of therapy, the research support for major therapy systems, and ethical issues.

**PSY 481**  
**PSYCHOLOGICAL TESTS**  
**AND MEASUREMENTS**  
3, 2/2; Sp 00, 01

*Prerequisites:* PSY 101, PSY 306, and three credits of psychology. This course will discuss many of the issues and problems surrounding psychological testing. Topics include: test reliability, validity, construction, administration, norms, and interpretation. Students will examine the most commonly used intelligence, personality, neuropsychological, and personnel assessment techniques. Limited practicum experiences are also provided.

**PSY 488**  
**INTERNSHIP**  
**Credit varies; 1999-01**

*Prerequisite:* Approval of the faculty supervisor must be obtained prior to registration. The psychology internship provides students with supervised field experience in a variety of settings to supplement classroom instruction.

**PSY 495**  
**PROJECT**  
**Credit varies; 1999-01**

*Prerequisite:* Approval of the faculty supervisor must be obtained prior to registration. The psychology project provides undergraduates the opportunity to conduct research under the supervision of a faculty member.

**PSY 496**  
**HONORS THESIS I**  
3, 0/3; 1999-01

*Prerequisite:* PSY 450, 72 additional credits, and consent of instructor prior to registration. The honors psychology student will initiate the research that will later be formally presented in thesis form. Students will complete extensive library research in their areas of interest, and will present a formal research proposal (oral and written) to their supervisor and honors thesis committee. Any necessary research will also be carried out. *Required for students in the department honors program.*

**PSY 498**  
**HONORS THESIS II**  
3, 0/3; 1999-01

*Prerequisites:* PSY 496 with a minimum grade of "B" and consent of instructor prior to registration. The honors psychology student will carry out the research proposed in PSY 496 and submit a formal thesis in written form. The student will also orally defend his/her work before the faculty supervisor, thesis committee, and interested faculty members. *Required for students in the department honors program.*

**PSY 499**  
**INDEPENDENT STUDY**  
**Credit varies; 1999-01**  
*Prerequisite:* Approval of faculty supervisor must be obtained prior to registration.

## QUALITY STUDIES

See Technology

## SAFETY STUDIES

See Technology

## SCIENCE EDUCATION

**Earth Sciences and Science**  
**Education Department**  
*Stephen J. Vermette, Chair*  
Science Building 271

These interdisciplinary science courses cut across and integrate scientific knowledge from a wide variety of disciplines. They are designed to improve the liberal education and scientific awareness of non-science majors and place emphasis on scientific literacy and scientific process as well as sci-

entific understanding. Also included are science courses for prospective science teachers, and courses in the environmental sciences minor.

**SCI 100**  
**CONTEMPORARY SCIENCE**  
3, 3/0 CM

An introduction to the role of science in contemporary society. Emphasis on the process of science for solving problems and organizing information to understand science and technology. Contemporary issues and case studies will be used to illustrate the methods of science.

**SCI 105**  
**PHYSICAL SCIENCE FOR**  
**NON-SCIENCE STUDENTS**  
3, 3/0 CM

An activity-centered approach to the physical sciences. Extensive use of materials designed for students not intent on careers in science but interested in a non-technical analysis of the procedure of science.

**SED 200**  
**FIELD EXPERIENCE IN**  
**SECONDARY SCIENCE EDUCATION**  
3, 2/2

Provides classroom and field experiences designed to help students make a better-informed decision if they are contemplating a career in secondary science education. For students the course provides important background for their roles as both citizens and parents. *Required for all secondary science education majors. Includes 30 hours field observation.*

**SCI 231**  
**POLLUTION, THE ENVIRONMENT,**  
**AND SOCIETY**  
3, 2/2 or 3/0 GCM

From ecology to global warming, pollution to pesticides, a survey of the scientific and societal implications of present-day global environmental problems. The causes, effects, and possible solutions of worldwide environmental problems with implications from conservation, chemistry, health, and sociology. *Option in environmental science minor.*

**SCI 232**  
**ENERGY, THE ENVIRONMENT,**  
**AND SOCIETY**  
3, 2/2 or 3/0 GCM

An examination of regional and global energy use and issues. Includes environmental, economic, individual and societal perspectives. Major energy alternatives will be discussed.

**ENS 300**  
**INTRODUCTION TO**  
**ENVIRONMENTAL STUDIES**  
3, 3/0

*Prerequisites:* Junior or senior standing or consent of instructor. An introduction to the classical environmental literature. The student will learn about global environmental problems, environmental legislation, and the status of global environmental policy.

**SED 307**  
**TECHNIQUES FOR TEACHING**  
**LABORATORY ACTIVITIES IN THE**  
**SECONDARY SCIENCE CLASSROOM**  
3, 0/6

*Prerequisite:* 24 credits in science. Science education majors will learn selected laboratory techniques necessary to teach New York Regents or non-Regents secondary science classes. Topics for each content area include ordering and maintaining supplies/equipment, storage, safety, preparation of materials, lab set-up, and measurement techniques.

**SED 308**  
**METHODS AND MATERIALS IN**  
**TEACHING SECONDARY**  
**SCHOOL SCIENCE**  
3, 2/2

*Prerequisites:* EDF 303, EDF 403, EDU 416, SST/SED 200 (may be concurrent). GPA 2.5 or higher; approval by earth sciences and science education department chair. Components of the teaching-learning situation in a science classroom. Construction of components for an effective teaching-learning situation. Also, the interrelationships of secondary science programs. *Required in all secondary science (7-12) programs, and the elementary education extension in science program (7-9).*

**SCI 311**  
**PHYSICAL SCIENCE FOR**  
**ELEMENTARY SCHOOL TEACHERS**  
3, 3/0

*Prerequisite:* A college-level course in a science other than biology. An activity-oriented course for elementary preservice teachers. In addition to practical demonstrations of appropriate physical science concepts, student will "do" physical science activities of elementary school-age children. *Option in elementary education science concentration.*

**SCI 312**  
**LIFE SCIENCE FOR ELEMENTARY**  
**SCHOOL TEACHERS**  
3, 3/0

*Prerequisite:* A college-level biology course. An activity-oriented course for elementary preservice teachers. Reviews science content from State Elementary Science Syllabus. Also

includes curriculum and pedagogy as related to the life sciences. *Option in elementary education science concentration.*

**SCI 313**  
**EARTH SCIENCE FOR ELEMENTARY**  
**SCHOOL TEACHERS**  
3, 3/0

*Prerequisite:* A college-level course in earth sciences. Activity-oriented course for students interested in elementary school teaching. Practical demonstrations of concepts in geology and meteorology. Students will "do" earth science activities of elementary school-age children. *Option in elementary education science concentration.*

**SCI 323**  
**SCIENCE AS INQUIRY**  
3, 3/0

The procedures of science as a search for knowledge of natural phenomena; comparison with other methods of inquiry; implications for non-scientists. *Option in elementary education science concentration.*

**SCI 327**  
**THE DEVELOPMENT AND**  
**IMPACT OF ATOMIC SCIENCE**  
3, 3/0 CM

The development of atomic science in the twentieth century will reveal the dynamic interaction of the atom with humanistic activity.

**SCI 335**  
**OUTDOOR SCIENCE EDUCATION**  
3, 2/2

*Prerequisite:* An introductory environmental science course. An interdisciplinary approach to outdoor science education. Basic concepts of natural history in the classroom and field will be covered. Will include an extended field trip to the college camp. *Option in environmental science major.*

**SCI 340**  
**SCIENTIFIC STUDIES IN**  
**ENVIRONMENTAL POLLUTION**  
3, 2/2

*Prerequisites:* Nine hours of science, at least three credits in an environmental science course, or consent of instructor. A scientific, in-depth examination of selected environmental pollution. Each semester, a variety of types of pollution will be explored. A field-based project will be used to illustrate data collection techniques. *Option in environmental science minor.*

**SED 407/SED 408**  
**PRACTICE TEACHING SCIENCE IN**  
**THE SECONDARY SCHOOL**  
12, 5/30

*Prerequisites:* SED 308 with "C" or better; 2.5 GPA, successful completion of English and mathematics basic



*skills competency; if referred, satisfactory completion or exemption from SLP 100; approval by Earth Sciences and Science Education Department chair. Teaching under supervision at least five days a week for two eight-week periods (six credits each); individual and group instruction; planning unit teaching; classroom management and routine procedures; audio-visual aids; evaluation procedures; participation in total school program. Required for upper-division students in all secondary science programs.*

**SCI 495  
PROJECT**  
1-3, 0/2-6  
*Prerequisite: Approval of faculty sponsor must be secured prior to registration. Environmental, energy, science/society, and science education-related areas.*

**SCI 499  
INDEPENDENT STUDY**  
3-6, 0/6-12  
*Prerequisite: Approval of faculty sponsor must be secured prior to registration. Environmental, energy, science/society, and science education-related areas.*

## SOCIAL STUDIES EDUCATION

**History and Social Studies  
Education Department**  
*Edward O. Smith Jr., Chair*  
Classroom Building C205

**SST 102  
PROBLEM SOLVING IN  
THE SOCIAL STUDIES**  
3, 3/0; F 99, 00 CS  
The methods of interdisciplinary problem solving and emphasis upon the application of the method to selected contemporary problems.

**SST/ANT/GEG/SOC 199  
SOCIAL SCIENCE COMPUTER  
APPLICATIONS**  
3, 3/0; offered based  
on staff availability  
*Prerequisite: CIS 101 or equivalent, or consent of instructor. A hands-on introduction to the application of computers to applied social research problems including a review of past practices, current uses, and future trends. Students will become involved in the computer analysis of data for the purpose of developing insights into the ways people can use computers to perform needed social improvements in society.*

**SST 200  
FIELD EXPERIENCE IN  
SECONDARY EDUCATION**  
3, 3/0; 1999-01  
Provides classroom and field experiences designed to help the student make a better informed decision regarding a career in secondary social studies education. For the general student the course provides important background for their role as both a citizen and parent.  
*Required for social studies education majors.*

**SST 303  
TECHNIQUES FOR TEACHING  
SOCIAL STUDIES IN THE  
SECONDARY CLASSROOM**  
3, 3/0; 1999-01  
*Prerequisites: Six hours in professional education courses; minimum 2.75 GPA; minimum 2.75 GPA in major; SST 200 and SSE 309.*  
Attention focuses on the problems of the teacher, techniques for teaching, analyzing classroom behavior, self evaluation and peer evaluation of teaching practices.

**SSE 309  
METHODS AND MATERIALS  
IN TEACHING SECONDARY  
SOCIAL STUDIES**  
3, 3/0; 1999-01  
*Prerequisites: Junior standing; completion of EDF 303; minimum 2.75 GPA; minimum 2.75 GPA in major; SST 200.* A study of the purposes, goals, curricular materials, methodologies and instructional techniques of social studies education. A major emphasis will be for the student to develop a competency in designing and practicing instructional strategies drawn from the methodologies and of the curricular materials of social studies education and the disciplines of history and the social sciences.

**SSE/SOC 323  
SOCIOLOGY OF EDUCATION**  
3, 3/0; F 00  
*Prerequisite: SOC 100.* An examination of the social organization of education in the U.S. and elsewhere with emphasis on the role of education in preserving and changing our culture; the school as a social system; non-school factors that influence educational aspirations and achievement; the role of the teachers, student subcultures, and administrative behavior patterns on student performance in school; changing and alternative educational forms; and changing relationships in colleges and universities.

**SST 350  
THE TRADITIONS OF  
THE PEOPLE OF THE LONGHOUSE  
(THE HO DE NO SAU NEE)**  
3, 3/0; Sp 00, 01 D  
An introduction to the traditions of the People of the Longhouse (The Ho De

No Sau Nee); pre-Columbian founding of the League, clan system, early colonial relationships, role in American Revolution, state of the Nations, and primary current issues.

**SST 355  
SOCIAL STUDIES SEMINAR IN  
CONFLICT RESOLUTION**  
3, 3/0; offered based  
on staff availability  
There are now many more strategies for resolving conflicts than are generally used. These strategies will be reviewed with particular emphasis upon international and interpersonal problems. Coursework will be drawn from political science, law, sociology, and social psychology.

**SST 370  
THE MICROCOMPUTER IN THE  
SOCIAL STUDIES CLASSROOM**  
3, 3/0; offered based  
on staff availability  
A course designed to familiarize students with relevant software and methodology for its utilization in the social studies classroom. All students will have the opportunity to participate on the microcomputer.

**SSE 404  
SEMINAR IN ELEMENTARY  
SOCIAL STUDIES**  
3, 3/0; offered based  
on staff availability  
*Prerequisites: EDU 210 and EDU 352.* Helps students to utilize more efficiently their social science preparation for the purpose of early secondary and elementary social studies instruction. The students will make decisions concerning their tentative positions, the purpose of social studies, and the available alternatives to teachers in the areas of methodology and curriculum.

**SSE 409  
STUDENT TEACHING OF SOCIAL  
STUDIES IN THE MIDDLE SCHOOL**  
6, 30/0; 1999-01  
*Prerequisites: Minimum 2.75 GPA; minimum 2.75 GPA in major; grade of "C" or higher in SSE 309; must have satisfied English and math competency requirements; if referred, satisfactory completion of or exemption from SLA 100; all other coursework must be completed prior to student teaching. Student must be enrolled concurrently in SSE 410.* Teaching under supervision five days per week; individual and group instruction; daily and long-view planning; unit teaching; classroom management and routine procedures; audio-visual aids; community resources; recordkeeping, evaluation procedures; participation in total school program.

**SSE 410  
STUDENT TEACHING OF  
SOCIAL STUDIES IN THE  
SENIOR HIGH SCHOOL**  
6, 30/0; 1999-01  
*Prerequisites: Minimum 2.75 GPA; minimum 2.75 GPA in major; grade of "C" or higher in SSE 309; must have satisfied English and math competency requirements; if referred, satisfactory completion of or exemption from SLP 100; all other coursework must be completed prior to student teaching. Student must be enrolled concurrently in SSE 409.* Teaching under supervision five days per week; individual and group instruction; daily and long-view planning; unit teaching; classroom management and routine procedures; audio-visual aids; community resources; recordkeeping, evaluation procedures; participation in total school program.

**SST 450  
INTERDISCIPLINARY FIELD  
RESEARCH SEMINAR IN SOCIAL  
STUDIES METHODS**  
3, 3/0; offered based  
on staff availability  
*Prerequisite: Six credits in upper-division social science courses.* A study of the nature of interdisciplinary research, the design, fielding, and analysis of social surveys. Particular attention is paid to school settings and the attitudes and relationships of the community to policy decisions regarding the format of secondary school social studies curriculum.

**SSE/HIS 488  
INTERNSHIP**  
3-12; See chair or pertinent staff  
*Prerequisite: Sopbomore, junior, or senior standing; six hours lower-division major courses; plus six hours of history and social studies education coursework at the upper-division level; minimum 2.5 GPA; minimum 2.5 GPA in major.* Internships provide students with guided and supervised field experiences which complement the academic program. Students must have at least a 2.5 GPA and a background of courses or experience within the area of interest. Approval of the placement must be obtained from the student's adviser and the department chair.

**SST 495  
PROJECT**

**SST 499  
INDEPENDENT STUDY**

## SOCIAL WORK

**Social Work Department**  
*J. Patrick Dexter, Chair*  
Classroom Building C115

**SWK 105  
INTERPERSONAL RELATIONS**  
3, 3/0; offered based  
on staff availability  
A course in which students examine their own interpersonal style in communicating and relating to others. Students examine how societal, cultural, and professional values impact interpersonal relationships. The course affords students the opportunity to increase awareness of their interpersonal skills as well as how to overcome barriers to healthy and satisfying interpersonal relationships.

**SWK 220  
INTRODUCTION TO SOCIAL WORK**  
3, 3/0; 1999-01 CT  
Introduces students to the social welfare institution and to social work. Content includes social work knowledge, skills, sanctions, values, and ethics. Generalist practice in social work is emphasized. Forty hours of volunteer work are required in addition to coursework.  
*Required for social work majors.*

**SWK 307  
HUMAN BEHAVIOR AND THE  
SOCIAL ENVIRONMENT I**  
3, 3/0; 1999-01  
*Prerequisite: BIO 100.* The development of the individual in the family from pre-birth through adolescence is studied. Emphasis is on theories and issues which provide a knowledge base for social work.  
*Required for social work majors.*

**SWK 308  
HUMAN BEHAVIOR AND THE  
SOCIAL ENVIRONMENT II**  
3, 3/0; Sp 00, 01  
*Prerequisite: SWK 307.* A continuation of SWK 307. A study of the development of the individual in the family from young adulthood, through middle age and old age. Emphasis is on the knowledge base for social work.  
*Required for social work majors.*

**SWK 310  
SEXUALITY IN HUMAN  
DEVELOPMENT**  
3, 3/0; F 99, 00  
*Prerequisite: Junior or senior standing.* A course for future human service professionals which examines and analyzes human sexuality as part of human development.

**SWK 317  
RESEARCH IN SOCIAL WORK**  
3, 3/0; 1999-01  
*Corequisites: SWK 308, SWK 422, math/English competency.* The application of research methodologies and evaluative techniques to the field of social work.  
*Required for social work majors.*

**SWK 319  
DYNAMICS OF POVERTY**  
3, 3/0; 1999-01 DCT  
Acquaints students with the predominant theories, policies, and programs dealing with poverty in America. The historical treatment of the poor and views of poverty are discussed. The course explores how poverty affects individuals, families, and communities. Class, race, gender, and age are also discussed. Strategies of social change are analyzed. Twenty hours of volunteer work are required in addition to coursework.

**SWK 320  
SOCIAL SERVICES ORGANIZATIONS**  
3, 3/0; 1999-01  
A study of the purposes, types, management, staffing, and funding of organizations which deliver social services. The roles of the social work profession in such organizations are examined. Selected social work fields of practice and services for specialized populations are described.  
*Required for social work majors.*

**SWK 321  
THE ELDERLY AND  
SOCIAL SERVICES**  
3, 3/0; offered based  
on staff availability  
*Prerequisite: SWK 307.* This course is designed to introduce junior and senior students to the needs and services for the elderly. The course will include knowledge building about services and programs for the aging, policy issues regarding the aging such as health, housing, and finances. Intervention strategies for working with this population will also be presented.

**SWK 335  
MENTAL HEALTH  
AND SOCIAL WORK**  
3, 3/0; offered based  
on staff availability  
*Prerequisite: SWK 307.* This course introduces students to theoretical perspectives concerning mental health and mental illness. The history of the mental health movement, institutional and community mental health services, and the roles and functions of social workers and other personnel in the mental health system are fundamental course topics.

**SWK 337  
SOCIAL WORK WITH GROUPS**  
3, 3/0; offered based  
on staff availability  
*Prerequisite: SWK 105 or equivalent.* A survey of group work in a variety of social work settings. The course will broaden the students' theoretical knowledge of group dynamics and group leadership. The focus is on the application of intervention strategies and skills necessary for leading groups. Students will be exposed to a variety of types of groups utilized by social workers including community action groups, work groups, activity groups, discussion groups, committees, work teams, educational groups, and therapy groups.

**SWK 345  
CHILD WELFARE SERVICES**  
3, 3/0; offered based  
on staff availability  
This course will present child welfare as a field of practice in social work. It will give the student a broad view of the field including an understanding of the historical and philosophical bases; an awareness of the impact of culture, ethnicity, and race on practice; and specific knowledge about the current delivery of services and the skills needed to practice in the field.

**SWK 346  
CHILD ABUSE AND NEGLECT**  
3, 3/0; offered based  
on staff availability  
A survey of the major issues in child abuse and neglect from a social work viewpoint. In addition to presenting the nature of abuse and neglect, the actual incidence, and the workings of the current child protection system, the course will address intervention and treatment issues, as well as the role of other disciplines and the larger society.

**SWK 419  
SOCIAL WELFARE POLICY**  
3, 3/0; 1999-01  
*Prerequisite: SWK 320.* Analysis of the institutional response of the American welfare state to individual and societal issues, problems. Current social welfare issues, policies, and programs are viewed in their historic and philosophic context, with emphasis on critical thinking and policy practice.  
*Required for social work majors.*

**SWK 422  
INTERVENTIVE METHODS I**  
3, 3/0; Sp 00, 01  
*Prerequisites: SWK 220, SWK 307.* Examines the fundamental skills of social work practice. Emphasis is on communication and assessment skills with individuals and families.  
*Required for and restricted to social work majors.*

**SWK 423  
INTERVENTIVE METHODS II**  
3, 3/0; F 99, 00  
*Prerequisites: SWK 308, SWK 422.* This course is built on the fundamental assessment and intervention skills developed in SWK 422. This course will focus on models and strategies of intervention, resistances to change, and termination.  
*Required for and restricted to social work majors.*

**SWK 424  
INTERVENTIVE METHODS III**  
3, 3/0; Sp 00, 01  
*Prerequisites: SWK 320, SWK 423.* This course builds on the knowledge and skills of SWK 422 and SWK 423, expanding their application to intervention with groups and communities. Models of group work practice and phases of group intervention are presented. Major spheres of macro practice and methods to affect change at the large-systems level are addressed.  
*Required for and restricted to social work majors.*

**SWK 425  
SOCIAL WORK WITH FAMILIES**  
3, 3/0; offered based  
on staff availability  
*Prerequisites: SWK 308, SWK 422.* This course will focus on the family and family intervention by social workers. The course will present families in specialized problem contexts to help the student integrate family theory with practice principles.

**SWK 485  
SENIOR SEMINAR**  
3, 3/0; offered based  
on staff availability  
Intensive analysis of selected topics in social work.

**SWK 493-SWK 494  
FIELD INSTRUCTION**  
12, 3/14; 1999-01  
*Prerequisites: SWK 422 for SWK 493; SWK 493 for SWK 494.* Two consecutive semesters of supervised field experience in a setting in which professional social work is practiced. On campus integrative seminar meets weekly concurrent with field experience.  
*Required for and restricted to social work majors.*

**SWK 495  
PROJECT**

**SWK 499  
INDEPENDENT STUDY**



## SOCIOLOGY

**Sociology Department**  
*Virginia E. Grabner, Chair*  
 Classroom Building B307

**SOC 100**  
**INTRODUCTION TO SOCIOLOGY**  
 3, 3/0; 1999-01 CS  
 An introduction to the study of human society, its culture, institutions, processes, and change, including an examination of socialization, relationships between and among individuals and groups in society. *This course is a prerequisite for all other undergraduate courses in sociology and is required for sociology majors.*

**SOC/SST/GEG 199**  
**SOCIAL SCIENCE**  
**COMPUTER APPLICATIONS**  
 3, 3/0; Sp 00, 01  
 A hands-on introduction to the application of computers to applied social research problems including a review of past practices, current uses, and future trends. Students will become involved in the computer analysis of data for the purpose of developing insights into the ways applied sociologists use computers in their work.

**SOC 240**  
**ANALYZING SOCIAL PROBLEMS**  
 3, 3/0; Sp 00, 01 DCS  
*Prerequisite: SOC 100.* The analysis of several major social problems will be selected according to faculty and student needs and interests. A variety of approaches, techniques, and theories will be used in an analysis of selected social problems.

**SOC 300**  
**METHODS IN SOCIAL RESEARCH**  
 3, 3/0; 1999-01  
*Prerequisite: SOC 100.* The nature of scientific evidence; induction and deduction; the application of the scientific methods to sociological data; the use of statistics and other means of data collection; case histories, narrative and descriptive methods; methods of writing for publication; use of social materials from journals and books as illustrative material.

**SOC 301**  
**SOCIAL STATISTICS**  
 4, 4/0; 1999-01  
*Prerequisite: SOC 100.* Statistical methods and reasoning will be used to analyze and clarify sociological information.

**SOC 302**  
**APPLIED SOCIAL RESEARCH**  
 3, 3/0; 1999-01  
*Prerequisite: SOC 100.* This course explores the relationship between

applied social research and policy/decision making in organizations, agencies, and with individuals. Applied research techniques will be presented and analyzed according to their utility in a variety of settings. The research process will be examined from the vantage point of the applied researcher.

**SOC 310**  
**SOCIOLOGY OF SEX ROLES**  
 3, 3/0; 1999-01 DCS  
*Prerequisite: SOC 100.* A critical examination of the roles women and men play in various societies, with particular emphasis on changes in contemporary America. Social statuses of women and men will be analyzed historically and biologically, with particular attention given to the sociological implications of sexual inequality in the economy and political systems, as well as in marriage and family relationships.

**SOC 312**  
**WOMEN IN SOCIETY**  
 3, 3/0; Sp 00, 01 DCS  
*Prerequisite: Sophomore, Junior, or senior standing.* A multifaceted analysis of women in society. Students will be exposed to women's issues in relation to the social and natural sciences. Students will be encouraged to critically examine modern societies in light of women's perspectives. Formerly SOC 210.

**SOC 320**  
**SOCIOLOGY OF THE FAMILY**  
 3, 3/0; 1999-01 CS  
*Prerequisite: SOC 100.* Family as a social institution; its historical development, function, and structure; cross-cultural comparison; subcultural analysis of the contemporary American family system. Discussion of alternatives to living in families and of sex roles and sex role change.

**SOC/AAS 321**  
**THE AFRICAN-AMERICAN FAMILY**  
 3, 3/0; F 99 D  
*Prerequisite: SOC 100.* May be used for sociology or African-American studies. An exploratory study of the effects of American social institutions upon African-American family life, with emphasis on inter-familial relations.

**SOC 322**  
**SOCIOLOGY OF CHILDHOOD AND YOUTH**  
 3, 3/0; F 99, 00  
*Prerequisite: SOC 100.* An analysis of the socialization of children and adolescents as they emerge into adulthood. The impact of the family, the school, peer groups, and mass media; subcultural differences are examined. Intergenerational conflict and other social problems of childhood and youth are analyzed.

**SOC 323**  
**SOCIOLOGY OF EDUCATION**  
 3, 3/0; F 99, 00  
*Prerequisite: SOC 100.* An examination of the social organization of education in the U.S. and elsewhere with emphasis on the role of education in preserving and changing our culture; the school as a social system; non-school factors that influence educational aspirations and achievement; the role of the teachers, student subcultures, and administrative behavior patterns on student performance in school; changing and alternative educational forms; and changing relationships in colleges and universities.

**SOC 324/HEW 319**  
**SOCIOLOGY OF SPORT**  
 3, 3/0; Sp 01  
*Prerequisite: SOC 100.* The primary purpose of this course is to present a coherent and integrated application of the sociological perspective(s) to sport. Focus is on the social organization of sports-related activities and implies an interest in formal and informal organizational networks of social statuses, norms, goals, and values. Sport and related phenomena will be studied using theoretical frameworks and empirical tools of the social sciences.

**SOC 330**  
**SOCIAL PSYCHOLOGY**  
 3, 3/0; 1999-01 CS  
*Prerequisite: SOC 100.* Motivation and nature of attitudes, attitude change and stability, interpersonal perception and behavior, role prescriptions and role conflict, prejudice, conflict resolution.

**SOC 331**  
**SOCIOLOGY OF GROUP DYNAMICS**  
 3, 3/0; Sp 00, 01  
*Prerequisite: SOC 100.* An examination of the social structure and social dynamics of social groups including such essential features as the division of labor, types of leadership, communication and authority structures, social conflict, and social control mechanisms. Special attention will be given to the relationship of the individual to the group, comparisons of different types of "natural" groups such as family, peers, work groups, and the use of "experimental" groups to investigate various aspects of group life.

**SOC 333**  
**SOCIAL MOVEMENTS**  
 3, 3/0; F 99, 00 D  
*Prerequisite: SOC 100.* The analysis of various social movements. Relationships between individual discontent and social movements. Functional and dysfunctional aspects of different types of social movements.

**SOC 340**  
**SOCIOLOGY OF THE CITY**  
 3, 3/0; Sp 00, 01  
*Prerequisite: SOC 100.* The social organization of urban life in the U.S. and elsewhere, with emphasis on the growth and development of cities and metropolitan areas; lifestyle in the city and suburbs; the relationship of power and social control to urban stratification and the distribution of wealth; racial and ethnic distribution and relationships in urban settings; such urban problems as poverty, blight, crime, and violence; and urban planning and redevelopment.

**SOC 341**  
**SOCIOLOGY OF HUMAN ECOLOGY**  
 3, 3/0; offered based on staff availability  
*Prerequisite: SOC 100.* The study of interaction of people and environment and the effect of this interaction on the quality of living, especially upon such social problems as poverty, crime, physical and mental illness, and various types of pollution.

**SOC 350**  
**POWER, CLASS, AND INEQUALITY**  
 3, 3/0; Sp 00, 01 DCS  
*Prerequisite: SOC 100.* Historical and contemporary social inequality in the United States. Survey of research areas such as income distribution, social structure in consciousness, inequality and the state, and race and gender inequality. Contrasting theoretical interpretations of the origins and significance of social inequality. Analysis of current trends.

**SOC 351**  
**SOCIOLOGY OF RACE AND ETHNICITY**  
 3, 3/0; Sp 00, 01 DCS  
*Prerequisite: SOC 100.* The analysis of the status of racial and ethnic groups in American and other societies; forms, causes, and effects of prejudice; and ethnic conflicts and the changing relationships of these groups to the larger society.

**SOC 352**  
**THE AGED IN URBAN SOCIETY**  
 3, 3/0; F 99  
*Prerequisite: SOC 100.* The changing status of the aged in urban society with emphasis on the United States. Differing status roles of aged women and men. The aged in different cultures and subcultures. The problems of the aged including poverty, physical decline and socio-psychological difficulties. Prejudice and discrimination against the aged. Public and private services to the aged. Aging in different living environments including retirement communities and nursing homes.

**SOC 353**  
**ENVIRONMENT AND SOCIETY**  
 3, 3/0 F 99, 00  
*Prerequisite: SOC 100 or six credits of sociology.* Empirically and theoretically analyzes the crisis of the environment (at the global, national, and local levels). Specific topics include the "toxics crisis," Central America, work, environmental racism, and others; but rather than focus on specific physical aspects of the environment, the course is designed to interpret societal structures and processes that lead to ecological crises and responses to ecological crises.

**SOC 360**  
**SOCIOLOGY OF WORK**  
 3, 3/0; F 99, 00 CS  
*Prerequisite: SOC 100.* Developments in work and workers' movements in modern America. Changes in the labor process. Discussion of such contemporary problems as occupational health and safety, deskilling, the disappearance of occupational cultures, and the upheaval caused by capital flight and plant closings.

**SOC 361**  
**INDUSTRIAL SOCIOLOGY**  
 3, 3/0; Sp 00, 01  
*Prerequisite: SOC 100.* The modern factory, with emphasis on the workers' point of view. The social relations of industrial work; co-workers, supervision, union, and management. The social and philosophical origins of modern industrial organization in the work of Taylor. Contemporary developments such as quality of work life programs, the "Japanese model," and the team concept.

**SOC 362**  
**SOCIOLOGY OF ORGANIZATIONS**  
 3, 3/0; Sp 00, 01 CS  
*Prerequisite: SOC 100.* Sociological approaches to understanding formal organizations. The internal dynamics of organizations will be reviewed, as will networks of organizations.

**SOC 370**  
**THE SOCIOLOGY OF DEVIANT BEHAVIOR**  
 3, 3/0; F 99, 00  
*Prerequisite: SOC 100.* The study of deviant behavior in American society, its nature, theoretical perspectives, and societal reactions. Emphasis will be placed on deviance as both an interactive and political process, with special attention paid to the development of deviant identities. Attention will be given to such specific behavior as substance abuse, sexual deviance, crime and delinquency, mental illness, and social protest.

**SOC 380**  
**SOCIOLOGY OF CRIME**  
 3, 3/0; 1999-01 CS  
*Prerequisite: SOC 100.* Crime; controversies concerning its nature, variation, causation, and means of prevention, re-education and the treatment of offenders. Covers theoretical perspectives in social and historical context. Some sections also present data regarding the extent of crime.

**SOC 381**  
**THE SOCIOLOGY OF VIOLENCE**  
 3, 3/0; offered based on staff availability  
*Prerequisite: SOC 100.* An analysis of various manifestations of violence. Theories of violence will be presented, as well as investigation into such specific topics as child abuse, battered wives, rape, violence in schools, and collective violence. Some insights shall be provided as to various programs which deal with violence.

**SOC 382**  
**SOCIOLOGY OF LAW**  
 3, 3/0; offered based on staff availability  
*Prerequisite: SOC 100.* A study of the structure and function of law in the American culture, with particular reference to the legal profession and the conditions from which the law arises and has an impact on the social system.

**SOC 383**  
**SOCIOLOGY OF PUNISHMENT AND CORRECTIONS**  
 3, 3/0; Sp 00, 01  
*Prerequisite: SOC 100.* An inventory and assessment of recent theories and research findings regarding correctional practice. Review of the nature and forms of treatment, obstacles to treatment, and offender typologies.

**SOC 384**  
**SOCIOLOGY OF MASS MURDER**  
 3, 3/0; Sp 01  
*Prerequisite: SOC 100.* A summary and assessment of sociological findings and theory concerning mass murder (genocide, serial killing, and simultaneous killing). Included are sociological profiles of mass murderers and discussion and analysis of social factors conducive to mass murders.

**SOC 390**  
**JUVENILE DELINQUENCY**  
 3, 3/0; 1999-01  
*Prerequisite: SOC 100.* The nature of delinquency; delinquency and normal behavior of youth; the search for causes and the state of sociological research in this area; the role of treatment agencies; the children's court, training schools; methods of prevention; use of case histories and field trips.

**SOC 391**  
**SOCIOLOGY OF ADDICTION**  
 3, 3/0; F 99, 00  
*Prerequisite: SOC 100.* Alcohol and drug abuse as a social problem and a sociological phenomenon. The nature of alcohol and drug abuse, the situations in which this behavior occurs, the characteristics of users. Legal, medical, and other efforts made to influence addicts.

**SOC 392**  
**SOCIOLOGY OF SEXUAL BEHAVIOR**  
 3, 3/0; Sp 00, 01  
*Prerequisite: SOC 100.* A summary and assessment of recent sociological findings concerning sexual behavior as a social process. Review of the nature of various sexual practices, such as homosexuality, sado-masochism, etc., in the light of sociological theory. Examination of the sociological literature concerning sexual behavior with special emphasis on the interactionist approach and the labeling process with reference to sexual conduct.

**SOC 393**  
**SOCIOLOGY OF MENTAL ILLNESS**  
 3, 3/0; F 99  
*Prerequisite: SOC 100.* An extensive examination of sociological perspectives on mental health and illness, including their social histories. Evaluation of social factors and processes involved in modern approaches to the causes and treatment of mental illness with special attention to problems of definition and diagnosis. Review of research findings in areas of epidemiology, institutional care and control of the mentally ill, the care of mental patients, and social issues.

**SOC 400**  
**FOUNDATIONS OF SOCIOLOGICAL THOUGHT**  
 3, 3/0; F 99, 01  
*Prerequisites: SOC 100 and six additional credits in sociology.* A study of ideas developed by the early founders of sociology including Karl Marx, Max Weber, Emile Durkheim, and their contemporaries.

**SOC 408**  
**CONTEMPORARY SOCIOLOGICAL THEORY**  
 3, 3/0; Sp 00, 01  
*Prerequisites: SOC 100 and six additional credits of sociology.* The significance and uses of sociological theory. The major current approaches to understanding society and social life such as contemporary Marxism, conflict theory, functionalism, and other order theories, and the interpretive sociologies. The construction and testing of sociological theories.

**SOC 415**  
**POPULATION ANALYSIS**  
 3, 3/0; F 99, 00  
*Prerequisite: SOC 100.* A course in applied formal, social, and economic demography. Includes treatment of birth, death, and migration; the social and economic structure of populations, especially in the United States; methods of population measurement and projection; and sources of demographic data. Students will receive hands-on experience in computer analysis of population data using general statistical packages and/or programs customized for use in population analysis.

**SOC 420**  
**SOCIOLOGY OF RELIGION**  
 3, 3/0; offered based on staff availability  
*Prerequisite: SOC 100.* Theories in sociology of religion will be examined. Emphasis upon religion and social change; religion in society; church and sect; social class and religion; the role of the minister, priest, and rabbi.

**SOC 430**  
**SOCIOLOGY OF INTERNATIONAL DEVELOPMENT AND UNDERDEVELOPMENT**  
 3, 3/0; Sp 01 G  
 An exploration of societal development and change on an international level, with particular emphasis on the "Third World." Topics include the major sociological theoretical models, conceptual frameworks and assumptions of development; the emergence and dynamics of the world system; the international division of labor; the interplay of development with gender, race, and ethnicity; social policy alternatives; and strategies of social change and liberation.

**SOC 440/PSC 410**  
**POLITICAL BEHAVIOR AND PUBLIC OPINION**  
 3, 3/0; offered based on staff availability  
*Prerequisite: SOC 100.* Conditions of democratic political behavior; option formation in democratic systems; voting behavior and party affiliation in the United States; political behavior in selected Western European societies. *May be used for sociology or political science credit.*

**SOC 460**  
**SOCIOLOGY OF OCCUPATIONS AND PROFESSIONS**  
 3, 3/0; offered based on staff availability  
*Prerequisite: SOC 100.* The social structure of American occupations and professions. Careers and career lines examined from the point of view of careerists. The effects of race, social class, and education on career chances. The career viewed as a life process involving changes in cultural values



and personal orientation. Mental stress examined as an accompaniment of occupational mobility and shifting role requirements. Emphasis is placed on managerial and professional careers.

**SOC 488**  
**INTERNSHIP IN SOCIOLOGY**  
3, 3/1-15; 1999-01  
*Prerequisite: Consent of faculty intern supervisor.*

**SOC 490**  
**SEMINAR IN SOCIOLOGY**  
3, 3/0; Sp 00, 01  
*Prerequisites: SOC 100 and SOC 300.* Research in selected area(s) of sociology.  
*Required for B.A. sociology majors with senior standing.*

**SOC 491**  
**TOPICAL SEMINAR IN SOCIOLOGY**  
3, 3/0  
*Prerequisites: SOC 100, six credits of sociology in a related field, the consent of instructor.* This course is intended to permit students and faculty to explore in some depth special problems in sociology. Interested students should contact a member of the sociology faculty. The faculty member will secure approval for the student to undertake the course from the Sociology Department. The course will then be listed in the master schedule with a subtitle indicating the area of special concentration.

**SOC 495**  
**PROJECT**

**SOC 499**  
**INDEPENDENT STUDY**

## SPANISH

See Foreign Language

## SPEECH LANGUAGE PATHOLOGY

**Speech Language Pathology Department**  
*Nancy J. Lund, Chair*  
Ketchum Hall 208

**SLP 100**  
**STUDENT SPEECH CLINIC**  
**Offered based on need**  
Complete diagnostic evaluation and intervention services are available for students with speech, language, hearing, fluency, or voice disorders. Communication enhancement is also

provided for those wishing to reduce an accent. Open to all students. Hours by arrangement.

**SLP 206**  
**LANGUAGE DEVELOPMENT**  
3, 3/0; F 99, 00 CT  
Analysis of language, its development; understanding how children learn language, speech sounds, words, sentence structure, meaning; factors that influence language development.  
*Not open to majors in speech language pathology except by advisement.*

**SLP 220**  
**INTRODUCTION TO COMMUNICATION DISORDERS**  
3, 3/0; Sp 00, 01 CT  
Classification and cause of speech language and hearing disorders in children and adults. Methods of treatment for minor disorders as well as suggestions for prevention; basic information on normal and abnormal speech, language and hearing development; observation of individuals presenting various communication disorders.  
*Not open to majors in speech language pathology except by advisement.*

**SLP 302**  
**CLINICAL PHONETICS**  
3, 3/0; F 99, 00  
Production, acoustic analysis, representation of English (American) speech sounds; application of phonetics to deviations in speech.  
*Required for speech language pathology majors.*

**SLP 303**  
**LANGUAGE ACQUISITION**  
3, 3/0; Sp 00, 01  
*Prerequisite: SLA 302.* Analysis of children's acquisition of phonology, morphology, syntax, semantics, and pragmatics; identifying structure, function of language of normal children at different levels of development; theories of language acquisition compared and contrasted.  
*Required for speech language pathology majors.*

**SLP 304**  
**ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING MECHANISMS**  
3, 3/0; F 99, 00  
Anatomy and physiology of normal speech and hearing mechanisms; introduction to possible deviations; embryonic development; neurology associated with production and reception of oral language.  
*Required for speech language pathology majors.*

**SLP 306**  
**SPEECH PATHOLOGY I**  
3, 3/0; Sp 00, 01  
*Prerequisite: SLA 302.* Introduction to disorders of speech; etiology, diagnosis and remedial procedures for treatment of articulation and phonological disorders.  
*Required for speech language pathology majors.*

**SLP 307**  
**SPEECH PATHOLOGY II**  
3, 3/0; F 99, 00  
*Prerequisites: SLA 304, SLA 306.* Etiology, diagnosis, and remediation of organic speech problems.  
*Required for speech language pathology majors.*

**SLP 312**  
**SPEECH ACOUSTICS AND PERCEPTION**  
3, 3/0; Sp 00, 01  
*Prerequisites: SLA 302, SLA 304.* A study of the scientific principles underlying the physiology, acoustics, and perception of normal speech production as a basis for subsequent understanding of disordered speech. Topics include basic concepts of sound, motor and acoustic theories of speech production, speech perception, instrumentation used to measure speech processes, and application to speech pathology.  
*Required for speech language pathology majors.*

**SLP 324**  
**CLINICAL METHODS AND OBSERVATION IN SPEECH LANGUAGE PATHOLOGY**  
3, 2/2; 1999-01  
*Prerequisites: SLA 302, SLA 303, SLA 304, SLA 306 or equivalent.* Introduction to clinical practicum in speech language pathology and to the clinical strategies and techniques used.  
*Required for speech language pathology majors.*

**SLP 411**  
**LANGUAGE DIAGNOSIS AND REMEDIATION**  
3, 3/0; F 99, 00  
*Prerequisite: SLA 303.* Introduction to assessment and therapy approaches, and children who have language problems; formal, informal testing procedures reviewed and evaluated. Therapy programs analyzed and designed to fit needs of children.  
*Required for speech language pathology majors.*

**SLP 414**  
**AUDIOLOGY**  
3, 3/0; F 99, 00  
*Prerequisite: SLA 304.* Hearing and hearing disorders for speech-language pathologists. Anatomy and physiology of the ear and pathologies of the auditory mechanism, decibel notation, and pure tone audiometry and tympanometry. Clinical practicum hours required.

*Required for speech language pathology majors.*

**SLP 415**  
**AURAL REHABILITATION**  
3, 3/0; Sp 00, 01  
*Prerequisite: SLA 414.* Aural rehabilitation for speech-language pathologists. Identification, referral, habilitation techniques for hearing-impaired. Emphasis on auditory training and speech reading. Clinical practicum hours required.  
*Required for speech language pathology majors.*

**SLP 424**  
**ORGANIZATION AND ADMINISTRATION OF SCHOOL SPEECH AND LANGUAGE PROGRAMS**  
3, 3/0; Sp 00, 01  
*Prerequisite: Thirty credits in communication disorders.* Study of organization of school speech language programs, including laws and regulations, case selection, caseload, scheduling, records, and facilities.  
*Required for speech language pathology majors.*

**SLP 429**  
**CLINICAL ACTIVITY**  
1, 0/3; 1999-01  
Observation and participation in clinical activities. Appropriate section should be selected with advisement. May be repeated for a total of up to three credits.

**SLP 495**  
**PROJECT**

**SLP 499**  
**INDEPENDENT STUDY**

## SWAHILI

See Foreign Language

## TECHNOLOGY

**Technology Department**  
*Charles A. Beasley, Chair*  
Upton Hall 315

**ENGINEERING TECHNOLOGY**  
**INDUSTRIAL TECHNOLOGY**  
**QUALITY STUDIES**  
**SAFETY STUDIES**  
**TECHNOLOGY EDUCATION**

### Engineering Technology

*Peter S. Pawlik, Coordinator*  
Upton Hall 315

**ENT 300**  
**ANALYTICAL METHODS FOR TECHNOLOGISTS**  
3, 3/0  
*Prerequisite: MAT 126.* Application of calculus and analytic geometry to problems in technology. Introduction to the ordinary differential equations used to analyze mechanical and electrical quantities in technology.  
*Required for electrical engineering (electronics, power and machines) and mechanical engineering technology majors.*

**ENT 301**  
**MECHANICS I**  
3, 3/2  
*Prerequisites: PHY 107.* A study of the basic principles and applications of statics and strength of materials. Topics include equilibrium of rigid bodies, friction, centroids, properties of areas, trusses, frames, tension/compression stresses in bars, and beam-bending stress.  
*Required for electrical engineering (electronics, power and machines) and mechanical engineering technology majors.*

**ENT 302**  
**MECHANICS II**  
3, 3/2  
*Prerequisites: ENT 300 and ENT 301.* A study of the principles and applications of dynamics. Topics include principles of dynamics, translation, rotation, dynamic equilibrium, work-energy methods and impulse-momentum methods.  
*Required for electrical engineering (electronics, power and machines) and mechanical engineering technology majors.*

**ENT 303**  
**KINEMATICS**  
3, 3/2  
*Prerequisite: ENT 302.* A study of the relative motions of machine parts. Both graphical and analytical techniques are presented for position, velocity, and acceleration analysis of linkages, chains, rolling bodies, gears, and miscellaneous mechanisms.  
*Required for mechanical engineering technology majors.*

**ENT 311**  
**THERMODYNAMICS**  
3, 3/2  
*Prerequisites: ENT 300, PHY 107.* An introduction to the principles of classical thermodynamics. Technical applications of heat-power systems, refrigeration systems, and fluid machinery.  
*Required for electrical engineering (electronics, power and machines) and mechanical engineering technology majors.*

**ENT 312**  
**FLUID MECHANICS**  
3, 3/2  
*Prerequisite: ENT 311.* Application of fluid mechanics to analysis of fluid circuits, channel flows, and fluid machines. Analysis, design, and operation of instrumentation for measuring pressure and flow. Theory of dimensionless groups for models and prototypes. Hydraulic flow controllers and pressure controllers.  
*Required for electrical engineering (electronics, power and machines) and mechanical engineering technology majors.*

**ENT 313**  
**COMPUTER METHODS FOR TECHNOLOGISTS**  
3, 3/0  
*Prerequisites: ENT 300 and CIS 111.* The application of computers and numerical methods to problems in engineering technology. Emphasis will be on actual student use of the computer.  
*Required for electrical engineering (electronics, power and machines) and mechanical engineering technology majors.*

**ENT 331**  
**ELECTRICAL CIRCUITS AND DEVICES I**  
3, 3/2  
*Prerequisite: PHY 108.* Study of the basic concepts of electrical circuits and systems both DC and AC. Includes loop and node analysis, super-position, maximum power transfer, alternating current analysis, phasors, inductors, capacitors, resonance, transformers.  
*Required for electrical engineering (electronics, power and machines) and mechanical engineering technology majors.*

**ENT 332**  
**ELECTRICAL CIRCUITS AND DEVICES II**  
3, 3/2  
*Prerequisites: ENT 300 and ENT 331.* Study of magnetic fields and the magnetic circuit. The ideal trans-

former. Realistic power transformers. Direct current machinery-three phase generator. The rotating magnetic field and alternating current machinery. Single-phase and polyphase motors. Synchronous motors and generators.  
*Required for electrical engineering (electronics, power and machines) and mechanical engineering technology majors.*

**ENT 341**  
**ELECTRONICS**  
3, 3/2  
*Prerequisites: ENT 300 and ENT 331.* Introductory analysis of electronic circuits, with emphasis on semiconductor devices.  
*Required for electrical engineering (electronics, power and machines) technology majors.*

**ENT 342**  
**NETWORKS**  
3, 3/0  
*Prerequisites: ENT 300 and ENT 331.* Network analysis methods, generalized waveform analysis, electrical circuit parameters, equivalent circuits, initial circuit conditions, steady state and transient solutions. Laplace transform methods and applications to network analysis, transform methods in linear system analysis, transfer function concepts and sinusoidal steady state analysis.  
*Required for electrical engineering (electronics, power and machines) technology majors.*

**ENT 351**  
**ELECTRONIC CIRCUIT ANALYSIS AND DESIGN I**  
3, 3/2  
*Prerequisite: ENT 341 and ENT 342.* Analysis and design of electronic circuits, discrete and integrated, with emphasis on linear analog applications.  
*Required for electrical engineering technology, electronics majors.*

**ENT 352**  
**ELECTRONIC CIRCUIT AND DESIGN II**  
3, 3/2  
*Prerequisite: ENT 351.* Analysis and design of electronic circuits, discrete and integrated, with emphasis on non-linear analog applications.  
*Required for electrical engineering technology, electronics majors.*

**ENT 371**  
**ELECTROMECHANICAL MACHINES**  
3, 3/2  
*Prerequisite: ENT 332.* DC machines, AC machinery and transformers, as an integral part of electric power systems. Study of three-phase synchronous machines and induction motors, fractional horsepower AC motors, electrical machines in control systems.  
*Required for electrical engineering technology, power and machines majors.*

**ENT 401**  
**STRESS ANALYSIS**  
3, 3/2  
*Prerequisites: ENT 301 and INT 311.* An advanced course in strength of materials which focuses on the analytical, numerical, and experimental methods of stress analysis as applied to structures and machine elements. Topics include axial stresses and deformation, bending and torsion of beams and shafts, plane stress, plane strain, elastic stability, yield criteria, combined stresses, and energy methods.  
*Required for mechanical engineering technology majors.*

**ENT 402**  
**SHOCK AND VIBRATION ANALYSIS**  
3, 3/2  
*Prerequisites: ENT 302 and ENT 401.* A study of the theoretical, analytical, and experimental methods used in the analysis of shock and vibration in machine elements and structures. Topics include free and forced vibration of one and multi-degree of freedom systems with an introduction to lumped parameter systems and continuous systems. The laboratory will stress familiarization with the instrumentation and experimental techniques used in vibration analysis.  
*Required for mechanical engineering technology majors.*

**ENT 411**  
**HEAT TRANSFER**  
3, 3/2  
*Prerequisite: ENT 312.* A study of the process of heat transfer and its application to the fields of processing technology, energy conversion, and machine design. Topics include conduction, convection, radiation, heat exchanger design, combined modes of heat transfer, and applications to machine design.  
*Required for mechanical engineering technology majors.*

**ENT 421**  
**MACHINE DESIGN I**  
3, 3/2  
*Prerequisite: ENT 303.* A study of the techniques used to design and specify machine elements, i.e., shafts, springs, fasteners, belts, clutches, brakes, chains, bearings, gears, cams, etc.  
*Required for mechanical engineering technology majors.*

**ENT 422**  
**MACHINE DESIGN II**  
3, 2/3  
*Prerequisites: ENT 421 and ENT 401.* Advanced topics in machine design including numerical control. Each student will be required to complete a major design project which includes preliminary analysis, working drawings, fabrication, and testing of a prototype.  
*Required for mechanical engineering technology majors.*



**ENT 431  
DIGITAL SYSTEMS I**  
3, 3/2

*Prerequisite:* ENT 341. The course includes Boolean algebra, combinational circuit analysis and design, gates, sequential circuits, flip-flops, counters, logic types and interfacing. A/D inverters, encoders/decoders, mux/demux, and memory devices. The experiments are designed to develop facility in analyzing, testing, troubleshooting, and designing digital circuits.  
*Required for electrical engineering (electronics, power and machines) technology majors.*

**ENT 432  
DIGITAL SYSTEMS II**  
3, 2/3

*Prerequisite:* ENT 431. Theory and application of microprocessors and microcomputers, composition, programming, interfacing, prototyping, and troubleshooting.  
*Required for electrical engineering (electronics, power and machines) technology majors.*

**ENT 433  
MICROPROCESSOR  
APPLICATIONS AND ROBOTICS**  
3, 3/2

*Prerequisite:* ENT 432. This course provides a theoretical and practical background of the technology used in the application of microprocessors. The programming hardware, interfacing, and application of microprocessors is covered. The '8086' microprocessor is used as the basis for laboratory study. Subsequently, the elements of robotics are presented with emphasis on the use of the microprocessor for control of the robot. In addition, construction and programming of robots is covered.

**ENT 441  
ELECTROMAGNETIC FIELDS AND WAVES**  
3, 3/2

*Prerequisites:* ENT 332 and ENT 300. Description of traveling waves on transmission lines and waveguides. Introduction to RF and microwave technology for measurement of frequency, wavelength, power, and impedance. Use of Smith Chart for circuit analysis. Characteristics of sources and amplifiers used in RF and microwave systems.  
*Required for electrical engineering technology, electronics majors.*

**ENT 442  
MICROWAVE TECHNIQUES**  
3, 3/2

*Prerequisite:* ENT 441. Continues the study of RF and microwave technology. Topics include receivers, noise, antennas, modulation and demodu-

lation, and propagation. Systems and applications are emphasized.  
*Required for electrical engineering technology, electronics majors.*

**ENT 461  
CONTROL TECHNOLOGY I**  
3, 3/2

*Prerequisite:* ENT 342. Introduction to control systems and components, control system analysis, transient and steady state evaluation, transfer functions, block diagram algebra, stability analysis, system classification, use of laboratory simulation techniques, experimental testing of type 0 and type 1 servo systems.  
*Required for electrical engineering (electronics, power and machines) technology majors.*

**ENT 462  
CONTROL TECHNOLOGY II**  
3, 2/3

*Prerequisite:* ENT 461. The analysis and design of feedback control systems, objectives and methods, frequency response plots, feedback control system performance based on frequency response analysis, stabilization techniques, control system design using Bode and Nichol's chart design methods, digital control systems and digital interfacing techniques. Experimental investigation of DC servo stabilization using rate feedback of network compensation, experimental evaluation of AC servo systems.  
*Required for electrical engineering (electronics, power and machines) technology majors.*

**ENT 471  
ELECTRICAL POWER SYSTEMS I**  
3, 3/2

*Prerequisite:* ENT 342. Operating strategies and control of single-phase and polyphase electric power systems. Integration of electrical machinery including transformers, synchronous machines, and induction motors in the power system.  
*Required for electrical engineering technology, power and machines majors.*

**ENT 472  
ELECTRICAL POWER SYSTEMS II**  
3, 3/2

*Prerequisite:* ENT 471. A systems approach to electrical power systems analysis, control of power and frequency; control of voltage and reactive power, load flow analysis, fault analysis and unbalanced operation, over-voltage and insulation requirements. Underground cable transmission systems.  
*Required for electrical engineering technology, power and machines majors.*

## Industrial Technology

*Deborah Rindfuss Ellis,  
Coordinator*  
Upton Hall 314

**TEC 101  
TECHNICAL DRAWING**  
3, 2/3

Survey of projection theory; multiview projection; special relationships and visualization of point, lines, planes, and solids; size and shape description through sketching and instrument drawing; industrial applications, standards, and conventions; auxiliary views, revolutions, developments and intersections.  
*Required for electrical engineering technology (power and machines), industrial technology, mechanical engineering technology, and technology education majors.*

**TEC 123  
PRINCIPLES OF MANUFACTURING**  
3, 2/2 CT

A study of the operative principles common to the majority of manufacturing industries. In-depth classroom discussion including presentation by leading industrialists. Consideration will be given to research and development, manufacturing, organization and management, industrial relations, engineering, production, labor, financial control, marketing, quality control.

**TEC 150  
THE SHAPE OF THINGS**  
3, 3/0; offered based on staff availability CT

A study of mechanics and design; concepts of strength of materials; the influence of shape, size, and choice of materials on the strength and rigidity of structures; presentation of the elements of mechanism.

**TEC 201  
MATERIALS PROCESSING**  
3, 2/3

*Prerequisite:* TEC 101. A study of the processes and problems associated with the conversion of materials into useful forms and goods. Practical experience is acquired through laboratory activities exemplifying the major processes studied.  
*Required for industrial technology, mechanical engineering technology, and technology education majors.*

**TEC 253  
FUNDAMENTALS OF BOATBUILDING**  
3, 0/6

A course in which students learn fundamentals of boat design, lofting, and construction through lectures, demonstrations, and the construction of a small boat.

**TEC 260  
DEVELOPMENT OF TECHNOLOGY**  
3, 3/0 CT

A study of the development of technology; emphasis on prevailing ideas, known physical materials and processes, and pressures of the natural and social surroundings; consideration of the technological future based on historical development.

**TEC 301  
MATERIALS PROCESSING II**  
3, 2/3; offered based on staff availability

*Prerequisite:* TEC 201. A continuation of the conceptual patterns introduced in TEC 201. Emphasis is placed upon numerical controlled and computerized numerical controlled materials processing. Practical experience is acquired through laboratory activities to enhance understanding of the processes studied.

**TEC 302  
CAD/CAM**  
3, 2/3

*Prerequisites:* TEC 101 and TEC 201. Computer utilization to facilitate the production processes of designing, drafting, production planning, cost estimating and materials processing; use of CAD software to create the database for part geometry, material selection and process requirements; use of CAM software to control machines, directly or indirectly, to produce the product.  
*Required for industrial technology (manufacturing concentration) majors.*

**TEC 311  
MATERIALS SCIENCE AND TESTING**  
3, 2/3

A study of the origin of composition of industrial materials including metals and their alloys, woods, fuels, lubricants, cutting fluids, solvents, protective compounds or coatings, inks, adhesives, plastics, and ceramics; applications of testing procedures for identification and determination of physical and chemical properties suitable for specific industrial uses.  
*Required for industrial technology, mechanical engineering technology, and technology education majors.*

**TEC 312  
MATERIALS MANAGEMENT**  
3, 2/3

*Prerequisite:* TEC 201. Provides working knowledge of the production planning and control functions in industry, basic coverage of the techniques and procedures of production planning, scheduling, dispatching, and control.  
*Required for industrial technology, mechanical engineering technology, and technology education majors.*

**TEC 313  
STATISTICAL QUALITY CONTROL**  
3, 3/0

Fundamentals of probability; sample space, events, probability distributions; binomial, poisson and normal. Application of probability in quality control; variable and attribute control charts, process capability studies, acceptance sampling, standard tables for sampling plans.  
*Required for industrial technology majors.*

**TEC 314  
ELECTRO-MECHANICS**  
3, 2/3

Fundamental laws of electric circuits, analysis of DC and AC circuits, application to electric power systems and electronics industry. Fundamentals of electrical machinery and introduction to three phase systems. Laboratory experiments on electrical circuit and devices.  
*Required for industrial technology and technology education majors.*

**TEC 319  
TECHNOLOGY AND VALUES**  
3, 3/0 CT

*Prerequisite:* Junior standing. Investigation of the social and ethical impacts of technology to enable increased understanding of the often conflicting roles of the historical and current creators and users of technology, and to enable more informed future assessment and control. Examination of selected current technical-ethical issues of societal importance.

**TEC 327  
SURVEY OF INDUSTRIAL  
POLLUTION CONTROL PROBLEMS**  
3, 3/0 CT

Overview and analysis of problems pertaining to pollution generation and abatement by industry during procurement, product development, production, distribution and utilization.

**TEC 351  
ENERGY SYSTEMS**  
3, 2/3

*Prerequisite:* MAT 124 and PHY 107. A study of energy and power from sources through conversion systems and mechanisms to the application of power for manufacturing.  
*Required for industrial technology (manufacturing concentration) majors.*

**TEC 402  
ERGONOMICS**  
3, 3/0

*Prerequisite:* Junior or senior standing. The interaction of people and machines; development and use of human factors information including sensory, cognitive, and psychomotor processes as these influence the design of displays, controls, and work

space; environment and safety considerations necessary to achieve desired machine outputs.  
*Required for industrial technology and technology education majors.*

**TEC 403  
SYSTEMS ANALYSIS**  
3, 3/0

*Prerequisite:* Junior or senior standing. A study of fundamental concepts and analytical techniques of systems analysis; stress will be placed on the quantitative methods and their use in decision making in practical situations involving industrial, managerial, and technological settings, trends will be treated as related to modeling, and computer technology, feedback, and information systems.  
*Required for industrial technology majors.*

**TEC 404  
INDUSTRIAL SYSTEMS  
APPLICATIONS**  
3, 2/3

*Prerequisite:* Junior or senior standing. An integrative investigation of management science and communication principles leading to a series of hands-on laboratory projects, case studies, and group problem-solving/decision making activities. Focus on building positive management communications abilities as applied to the components of contemporary work settings. Course is designed to help students cultivate and personalize leadership behaviors such as team building, coaching, and conflict resolution. Students will develop an appreciation of management strategy and implementation methods as applied in supervisory work settings.  
*Required for industrial technology (manufacturing concentration) majors.*

**TEC 405  
MANUFACTURING TECHNOLOGY**  
3, 2/4

*Prerequisite:* TEC 312 and last semester senior standing. A senior project course that provides a hands-on experience in the total manufacturing cycle of a product from the ideal inception stage through planning, product design, processing studies, actual and simulation of large-scale production, and experience in setting time standards and taking time studies.  
*Required for industrial technology (manufacturing concentration) majors.*

**TEC 430  
INTRODUCTION TO COMPUTER-AIDED DRAFTING (CAD)**  
3, 2/3

*Prerequisite:* TEC 101/DES 105 or consent of instructor. An introduction to computer-aided drafting. A study of the principles and concepts of microcomputers as utilized in the prepa-

ration of working drawings. Utilize various devices for data entry; perform basic editing, storage, and retrieval tasks; perform selected file management tasks; operate CAD output hardware.

**TEC 465  
SAFETY MANAGEMENT**  
3, 3/0

*Prerequisite:* Junior or senior standing. Development of the industrial safety movement; psychology in accident prevention; appraisal of accident cost factors, severity, and frequency; job safety analysis and corrective measures; plant inspection and preventive maintenance; storage and handling of materials; fire prevention; education and training of employees.  
*Required for industrial technology (manufacturing concentration) majors. Elective for safety minors.*

## Quality Studies

*Deborah Rindfuss Ellis,  
Coordinator*  
Upton Hall 314

**TEC 200  
TOTAL QUALITY MANAGEMENT**  
3, 3/0 G

*Prerequisite:* Sophomore standing. Introduction to the fundamental concepts of Total Quality Management, managerial commitment, organization mission and structure, quality problem-solving tools, variation, quality costs, vendor-customer relationships and quality evaluation techniques are discussed. The quality philosophies of Deming, Crosby, and others are introduced and critiqued.  
*Required for industrial technology (quality concentration) majors.*

**TEC 321  
MEASUREMENT SYSTEMS**  
3, 3/0; F 99, 00

*Prerequisite:* TEC 313. An introduction to the theory and application of measurement. Tolerancing, variable and attribute measurement devices, gauge variation, automated measurement input equipment, and gauge control systems are explored.  
*Required for industrial technology (quality concentration) majors.*

**TEC 323  
QUALITY IMPROVEMENT  
THROUGH DESIGN OF  
EXPERIMENTS**  
3, 3/0; Sp 00, 01

*Prerequisite:* TEC 313. Various experimental designs are studied which are applied to a manufacturing environment. One-, two-, and three-factor factorial designs are discussed as well as nested, partially nested and repeated designs. Simple and multiple linear regression techniques are presented to

enhance the experimenter's quality problem-solving ability.  
*Required for industrial technology (quality concentration) majors.*

**TEC 324  
QUALITY IN THE SERVICE SECTOR**  
3, 3/0; offered based on staff availability

*Prerequisite:* TEC 313. An introduction to the fundamental concepts of service quality. Problem definition, analysis, corrective action, and follow-up steps are discussed. The case study method is employed to bring forth the application of quality methods in the fields of education, health care, government, food service, finance and utilities.  
*Elective for quality minor.*

**TEC 488  
QUALITY INTERNSHIP**  
3, 0/12

An applied research activity in which the student analyzes a quality problem on campus or off campus at a local manufacturing/service organization. Evaluation is based on a formal written and oral report presented at the end of the semester.  
*Required for industrial technology (quality concentration) majors.*

## Safety Studies

*Richard A. Stempniak,  
Coordinator*  
Upton Hall 241

The safety studies area provides an opportunity for students from various specialized degree programs to also acquire a safety minor, teacher preparation in driver education, and a variety of elective courses of a general as well as specialized nature to satisfy personal interest or career goals.

**SAF 305  
FUNDAMENTALS OF SAFETY**  
3, 3/0 CT

An analysis of the fundamentals of accident prevention as they apply to the numerous areas of living, with consideration given to the human and environmental factors, legal aspects, and home and fire safety.  
*Required for safety minor. Required to teach high school driver's education.*

**SAF 310  
PERSONAL SAFETY AND FIRST AID**  
3, 3/0

Personal accident-prevention skills and techniques that can reduce potential threats to life, with emphasis on activities involving recreational, occupational, industrial, and daily life routines. Basic instruction in emergency medical care of the sick and injured. A standard first aid and personal safety certificate will be



awarded upon successful completion of the course.

**SAF 320  
PRODUCT SAFETY**  
3, 3/0

A study of product safety; agencies that control the manufacture and distribution of dangerous products; product safety laws and legal liability; product injury data; evaluative criteria; product testing; determining standards for safety.

**SAF 333  
OCCUPATIONAL SAFETY**  
3, 3/0

An analysis of hazards in the workplace, with emphasis on various accident prevention methods and techniques that can be utilized by both employees and management to reduce the accident toll. The Occupational Safety and Health Act of 1970 will be discussed in detail.

*Required for safety minor.*

**SAF 340  
COMMUNITY SAFETY**  
3, 3/0

A study of human and environmental factors affecting community safety; accident prevention and control principles; agencies and organizations; safety laws and ordinances; standards and codes; legal liability and insurance; disaster and emergency medical care; safety in places of public assembly; recreational facilities; transportation systems.

*Required for safety minors.*

**SAF 360  
INDUSTRIAL HYGIENE**  
3, 3/0

An introduction to the profession of industrial hygiene. Includes the detection, recognition, evaluation and control of those factors emanating from the workplace which may impair health, cause discomfort, illness, disease, and reduce efficiency among workers and the community.

## Technology Education

Richard A. Butz, Coordinator  
Upton Hall 243C

**OEC 301  
PRINCIPLES OF  
OCCUPATIONAL EDUCATION**  
3, 3/0

Introduction to the teaching of occupational education courses in public schools; principles, philosophy, and objectives; historical development of occupational education and the development of current issues for an occupational education program.

*Required for business and distributive education, business education, technology education, and vocational technical education majors.*

**OEC 302  
CURRICULUM AND EVALUATION IN  
OCCUPATIONAL EDUCATION**  
3, 3/0

Introduction to the teaching methods of occupational education courses in the public schools; introduction to test construction and evaluation techniques utilized in occupational education courses.

*Required for business and distributive education, business education, technology education, and vocational technical education majors.*

**OEC 303  
METHODS AND MATERIALS IN  
OCCUPATIONAL EDUCATION**  
1, 1/0

Basic methods utilized in the teaching of occupational education courses in the public schools and the preparation of teaching materials to accomplish stated objectives. Utilization of teaching methods that take into consideration the role of race, gender, and culture, as well as the individual with special needs.

**TEC 300  
CONSTRUCTION SYSTEMS**  
3, 2/3

A course for technology education majors and others who wish to meet the certification requirements of New York for teaching technology education in the public schools of the state. The course emphasizes structures that are habitable, using hands-on laboratory experience.

**TEC 349  
COMMUNICATION SYSTEMS**  
3, 2/3

Communication techniques throughout history have been an important part of the development and progress of civilization. The course will provide a short review of these techniques and then teach current techniques of using modern communications programs and materials. Students will experience a variety of occupations related to the field of communications.

**TED 360W  
TECHNOLOGY EDUCATION  
METHODS AND EVALUATION**  
3, 2/2

*Prerequisites:* OEC 301, OEC 302, and EDF 303. Basic principles and methods of teaching technology education subjects; strategies utilized in planning for instruction; strategies utilized in evaluating students, course content, and overall program; teaching and evaluating students with special needs; and the preparation of instructional materials.

**TEC 361  
TRANSPORTATION SYSTEMS**  
3, 2/3

A study of energy/transportation systems focusing on the moving of people, materials, and products. Types of transportation vehicles, energy and power, controls, careers, and the effects of transportation systems on the environment and society are emphasized. The course meets guidelines of the national and state professional associations regarding the systems approach to the technology education discipline.

**TED 450W  
PROFESSIONAL SEMESTER**  
6, 5/0 (7.5 wks)

*Prerequisite:* EDF 303, OEC 301, OEC 302, and TED 360; GPA 2.5 or higher. Full-time assignment in a junior and/or senior high school as a student-teaching intern working with a supervising teacher and a college supervisor; seminars on campus and in public schools to study teaching techniques, organization, management, and other aspects of teaching. Technology education, guided full-time teaching experience including the use of videotape to analyze teaching, participation in school and professional activities.

Students must be prepared to accept assignment at any center; have completed a minimum of 105 credits, including all 33 credits of approved technology core courses applicable for the Technology Education Certification Program; students may not enroll for any other college courses. *Required for technology education and industrial technology-education option majors. See technology (TEC) courses for description of courses in the technology education major.*

**TED 451W  
PROFESSIONAL SEMESTER**  
6, 5/0 (7.5 weeks)

*Prerequisites:* EDF 303, OEC 301, OEC 302, and TED 360; GPA in major of 2.5 or higher. Full-time assignment in a senior high school as a student-teaching intern working with a supervising teacher and a college supervisor; seminars on campus and in public schools to study teaching techniques, organization, management, and other aspects of teaching. A full-time teaching experience including the use of videotape to analyze instructional performance. Participation in schools and professional activities. Students must be prepared to accept assignment at any facility, and have completed a minimum of 105 credits, including all 33 credits of required technology core courses. Students may not enroll in any other college courses.

*Required for technology education and industrial technology-education option majors. See technology (TEC) courses for description of courses in the technology education major.*

## THEATER ARTS

### Performing Arts Department

Donna E. McCarthy, Chair  
Rockwell Hall 203

**THA 106  
INTRODUCTION TO THEATER ARTS**  
3, 3/0; 1999-01 CA

An introduction to all aspects of theater. Includes discussion of professional, educational, and community theater.

**THA 200  
VOICE AND DICTION**  
3, 3/0; 1999-01 CA

A comprehensive study of the speech mechanism and voice production.

**THA 207  
PLAY PRODUCTION**  
3, 1/4; 1999-01 CA

A hands-on introduction to all aspects of producing a play. Discussions include theater management, publicity, theatrical design, stage properties, and makeup. Participation on at least one preparation or run crew for performing arts productions is required.

**THA 216  
THEATER FUNDAMENTALS**  
3, 2/2; 1999-01

*Prerequisite:* Theater major or consent of instructor. An intensive introduction to theater in general and Buffalo State's program in particular for theater majors.

**THA 222  
BASIC MOVEMENT FOR ACTORS**  
3, 2/2; offered based on staff availability

*Prerequisite:* THA 106 or THA 216, or consent of instructor. Designed to give student actors a knowledge and awareness of their bodies so they can more fully incorporate the physical dimensions of acting into their character portrayals. (Appropriate for non-majors.)

**THA 226  
ACTING: THEORY AND PRACTICE**  
3, 1/4; 1999-01

*Prerequisite:* THA 106 or THA 216, or consent of instructor. An examination of the actor's art; the relationship of theory to practice.

**THA 230  
THEATER PRACTICUM I**  
1, 0/3; 1999-01

A technical theater laboratory experience in the preparation of costumes, scenery, lighting, or props for departmental theater productions.

**THA 231  
THEATER PRACTICUM II**  
1, 0/3; 1999-01

A technical theater laboratory experience as a run crew member for a departmental theater production.

**THA 234  
TECHNICAL THEATER**  
3, 1/4; Sp 00, 01

*Prerequisite:* THA 207 or consent of instructor. Continuation of THA 207 with emphasis on the technical elements of costume, scenery, and lighting design. Participation on at least one preparation or run crew for a performing arts production is required.

**THA 316  
SCRIPT ANALYSIS**  
3, 3/0; Sp 00, 01

*Prerequisite:* THA 106 or THA 216. Students will become familiar with scripts as unique forms of writing for public communication and theatrical production.

**THA 317  
HISTORY OF THEATER:  
ANCIENT TO RENAISSANCE**  
3, 3/0; F 99, 00 CA  
An examination of the origins and development of the physical theater; the consideration of dramatic literature in its theatrical context.

**THA 318  
HISTORY OF THEATER:  
RENAISSANCE TO MODERN**  
3, 3/0; Sp 00, 01 CA  
The emergence of the modern theater, the consideration of dramatic literature in its theatrical context.

**THA 320  
ADVANCED VOICE**  
3, 3/0; offered based on staff availability  
*Prerequisite:* THA 200. Further application and appreciation of vocal production methods with a special emphasis on individualized projects.

**THA 322  
ADVANCED MOVEMENT  
FOR THE ACTOR**  
3, 1/4; offered based on staff availability  
*Prerequisite:* THA 222 or consent of instructor. Continued exploration and development of the body as an organic tool for the actor. Concentration will be on the physical dynamics of the characterization and their integration into the total acting experience of voice, body, and mind.

**THA 326  
SCENE STUDY**  
3, 3/0; F 99, 00  
*Prerequisite:* THA 226 or equivalent. Scene analysis and role development with special attention to the interaction of characters in a dramatic scene.

**THA 330  
THEATER PRACTICUM III**  
1, 0/3; 1999-01  
A technical theater laboratory experience as a crew leader for a departmental theater production.

**THA 331  
THEATER PRACTICUM IV**  
1, 0/3; 1999-01

A technical theater laboratory experience in the student's area of specialization for a departmental theater production.

**THA 332  
PERIOD STYLES FOR THE THEATER**  
3, 3/0; F 99, 00 CA

*Prerequisite:* Junior or senior standing or any one theater course. A study of past period styles of western culture in architecture, furniture, fashion, and the decorative arts and how they are used for theatrical presentation for stage, film, and other forms of visual communication used in the entertainment industry.

**THA 333  
SCENE PAINTING**  
3, 2/2; offered based on staff availability  
*Prerequisite:* Junior or senior standing or a college-level arts course. Students will learn and develop basic scene painting techniques applicable to scenery production for theater, film, and video. Students will explore, through hands-on application, how to create full-scale painted scenery from a scaled drawing, paint mixing, faux finishes (including but not limited to marble, wood grain, brick and stone), and specialty paint finishes.

**THA 335  
COSTUME DESIGN FOR THEATER**  
3, 2/2; offered based on staff availability  
*Prerequisite:* THA 207 or consent of instructor. A hands-on introduction to costume construction and design. Discussions include design theory, script analysis, fabric selection. Studio sessions on shop equipment. Costume construction for performing arts production is required.

**THA 336  
LIGHTING TECHNIQUES**  
3, 2/2; offered based on staff availability  
*Prerequisite:* THA 207 or consent of instructor. An introduction to lighting design for theater, dance, studio, and industrial applications. Discussions include principles of optical systems, stage lighting equipment, color media, electricity, control systems, stage lighting, history, and the McCandless stage lighting system. Assigned practical experience required.

**THA 337  
SET DESIGN I**  
3, 2/2; offered based on staff availability  
*Prerequisite:* Junior or senior standing or any theater or design course. A beginning course in theatrical set design. The basic design components of line, form, mass, composition, balance, color, and texture as they relate to set design will be explored. Skills in script analysis, research, color theory, drafting techniques, and mechanical perspective drawing will be developed.

**THA 340  
PLAYWRITING**  
3, 3/0; offered based on staff availability  
*Prerequisite:* THA 106 or THA 216, or consent of instructor. Development of critical capacities in reference to the student's own work and that of his or her classmates; productive work in playwriting.

**THA 350  
DIRECTING**  
3, 3/0; F 99, 00  
*Prerequisites:* THA 226 and THA 234, or consent of instructor. An examination of the theater director's craft and responsibilities through lecture and a hands-on project.

**THA 370  
STAGE MAKEUP**  
3, 2/2; offered based on staff availability  
*Prerequisites:* THA 207 and THA 226. Study of the principles and techniques of theatrical makeup application and design.

**THA 416  
SEMINAR IN THEATER ARTS**  
1, 1/0; F 99, 00  
*Prerequisite:* 24 credits in theater arts. Designed to help the student prepare for the next step out of college. Skills to be developed include defining professional and personal goals; sharpening of critical capacities; creating and sharing a portfolio or audition presentation.

**THA 426  
ADVANCED ACTING**  
3, 3/0; Sp 00, 01  
*Prerequisites:* THA 326 and consent of instructor. Styles, periods, and methods of acting.

**THA 435  
ADVANCED COSTUME  
DESIGN FOR THEATER**  
3, 3/0; offered based on staff availability  
*Prerequisite:* THA 335 or consent of instructor. Advanced studies in costume design and rendering techniques. Drawing skills necessary; design and construction project for performing arts productions required.

**THA 437  
SET DESIGN II**  
3, 2/2; offered based on staff availability  
*Prerequisite:* DES 318/THA 337, or consent of instructor. A continuation of DES 318/THA 337. This course provides an intensive exploration of advanced set design techniques. Students will continue to develop set design skills with a concentration on different performance venues, model building techniques, portfolio-quality work and presentation styles. Advanced scenic considerations with the limitations of budget, stage space, and technical support will be explored.

**THA 438  
ADVANCED TECHNICAL PROBLEMS**  
3, 2/2; offered by contract  
*Prerequisite:* THA 234. Supervisory techniques and scene planning techniques. Examination of special problems; theories and trends in technical theater; independent projects in technical theater and design.

**THA 450  
DIRECTING II**  
3, 2/2; offered based on staff availability  
*Prerequisite:* THA 350. A practical application of directing theory and technique through class scenes and the direction of a one-act play for public performance.

**THA 470  
ENSEMBLE THEATER**  
3-9, 0/6-18  
*Prerequisite:* Audition. An examination of ensemble theatrical production through the preparation and performance of plays.

**THA 488  
INTERNSHIP**  
3; offered based on staff availability  
*Prerequisite:* Upper-division standing and consent of instructor. Supervised field experiences in a professional setting for students who have completed extensive academic preparation in the discipline. Fifty hours of field work in theater per credit.

**THA 495  
PROJECT**

**THA 499  
INDEPENDENT STUDY**



## URBAN PLANNING

### Geography and Planning Department

Raymond W. Waxmonsky, Chair  
Classroom Building A213

#### PLN 315 INTRODUCTION TO COMMUNITY PLANNING 3, 3/0; F 99, 00

Introduction to various aspects of community planning, historical survey, origin and growth of city planning movement; role of the various levels of government in community planning; and factors currently involved in community planning theory and practice. *Required for urban-regional analysis and planning majors.*

#### PLN 325 MAP AND AIR PHOTO INTERPRETATION 3, 3/0; Sp 00, 01

*Prerequisite: GEG 101 or PLN 315 or consent of instructor.* A study of fundamental elements of maps, air photographs, and satellite images, and the methodology of interpreting them. Lecture topics and laboratory work include spatial data sources, data presentation, globe and map grids, and the use of maps, air photos, satellite images, and global positioning system (GPS) to present, identify, and study spatial phenomena.

#### PLN 380 NEIGHBORHOOD REVITALIZATION 3, 3/0 Sp 00

*Prerequisite: PLN 315 or consent of instructor.* A study of neighborhood housing conditions, population displacements, gentrification, and historic preservation. Past, present, and potential housing programs from various government agencies will be analyzed.

#### PLN 385 COMMERCIAL DEVELOPMENT PLANNING 3, 3/0; Sp 01

*Prerequisite: PLN 315 or consent of instructor.* Evolution of commercial land use; formulation of a commercial use plan; commercial development for office and retail use; changing perceptions of downtown land use.

#### PLN 412 COMMUNITY PLANNING AGENCIES AND ISSUES 3, 3/0; offered based on staff availability

*Prerequisite: PLN 315.* The role of the professional planner in a range of government and private agencies; intro-

duction to the tools needed by the professional planner; discussion of planning techniques and issues. Emphasis is on professional ethics and the functions of staff in a variety of planning agencies.

*Required for the urban-regional planning concentration.*

#### PLN 415 SEMINAR IN PLANNING 3, 3/0; offered based on staff availability

*Prerequisite: Consent of instructor.* Investigation, discussion, and research on topics of current interest in planning or economic development. Techniques and methods of analysis used in the planning process. Topics will vary from semester to semester.

#### PLN/GEG 430 SEMINAR IN GEOGRAPHY AND PLANNING APPLICATIONS 3, 3/0; Sp 00, 01

*Prerequisite: Open only to senior geography and planning majors.* Seminar to do research in geography or planning and presentation of selected research-related topics by the department faculty. *Required for geography majors and urban-regional analysis and planning majors.*

#### PLN 488 INTERNSHIP

**Hours vary with credit**  
*Prerequisites: Junior or senior standing and PLN 315.* Internships provide students with guided and supervised field experience which complement the academic program. Students must have at least a 2.5 GPA and a background of courses or experiences within the area of interest. Approval of the placement must be obtained from the student's adviser and the department chair.

#### PLN 495 PROJECT

#### PLN 499 INDEPENDENT STUDY

## VOCATIONAL TECHNICAL EDUCATION

### Educational Foundations Department

Betty Capella, Chair  
Bacon Hall 306

N. John Popovich, Coordinator  
Bacon Hall 109

#### VTE 100 COMPREHENSIVE THEORETICAL TRADE OR TECHNICAL SKILLS 15 credits

**VTE 200  
COMPREHENSIVE TRADE OR  
TECHNICAL PERFORMANCE SKILLS  
15 credits**  
These credits are awarded for satisfactorily completing the trade theory and performance examinations. Admission to these examinations is based on verification of four years of work experience in a trade normally taught in vocational high school programs. Graduates of community college technical programs in appropriate trades are required to verify two years of work experience. The National Occupational Competency Testing Institute Examination is used to determine credit of 15 semester hours for each area.

**OEC 301  
PRINCIPLES OF  
OCCUPATIONAL EDUCATION  
3, 3/0; 1999-01**  
Introduction to the teaching of occupational education courses in public schools; principles, philosophy, and objectives; historical development of occupational education and the development of current issues for an occupational education program. *Required for business and distributive education, business education, technology education, and vocational technical education majors.*

**OEC 302  
CURRICULUM AND EVALUATION  
IN OCCUPATIONAL EDUCATION  
3, 3/0; 1999-01**  
Introduction to the teaching methods of occupational education courses in the public schools; introduction to test construction and evaluation techniques utilized in occupational education courses. *Required for business and distributive education, business education, technology education, and vocational technical education majors.*

**VTE 302  
COURSE ORGANIZATION  
3, 3/0; 1999-01**  
Techniques for analyzing a trade. Developing content for preparing students for employment. The organization of the New York State-approved curriculum for occupational education. Developing course material utilizing the New York State TOP product.

**VTE 306  
LABORATORY MANAGEMENT  
3, 3/0; 1999-01**  
Organizational factors that influence the success of the vocational teacher including facility planning, redesign, and all managerial phases of the vocational teacher's responsibilities.

**VTE 404  
METHODS OF TEACHING  
VOCATIONAL TECHNICAL  
SUBJECTS  
3, 3/0; 1999-01**  
Basic principles and methods of teaching vocational technical subjects. Prepares the craftsman, technician, or engineer to effectively impart knowledge to the learner.

**VTE 413  
PRACTICE TEACHING AND  
OBSERVATION  
3, 6/0; 1999-01**  
*Prerequisites: VTE 404 and NOCTI examination or equivalent.* Supervised teaching in vocational schools. Conferences and reports based upon teaching assignments will be required. Students should be prepared to accept an assignment at any school designated by the student teacher coordinator.

**VTE 415  
PROFESSIONAL DEVELOPMENT  
SEMINAR  
3, 3/0; 1999-01**  
Opportunity to synthesize the pedagogical courses and practice-teaching experience and to analyze the problems which confront the teacher.

**VTE 421  
OCCUPATIONAL EDUCATION  
FOR INDIVIDUALS WITH  
SPECIAL NEEDS  
3, 3/0; 1999-01**  
Primary emphasis on providing a wide range of experiences which relate to planning, delivering, coordinating, and evaluating occupational education programs for individuals with special needs found in secondary and postsecondary schools, rehabilitation centers, and correctional facilities; development of methods and techniques for teaching and assessing the work potential of individuals with special needs; development of self-help devices/adaptive equipment; and identifying instructional resources.

**VTE 450  
ORGANIZATION OF DIVERSIFIED  
COOPERATIVE WORK-STUDY  
PROGRAMS  
3, 3/0; offered based  
on staff availability**  
Provides information for technology education or occupational education majors interested in establishing diversified cooperative programs. Included are procedures for promoting a new program, working with advisory boards, developing employment opportunities, arranging trainee outlines, planning instructional facilities, and securing New York State Regents accreditation.

**VTE 455  
OPERATION OF DIVERSIFIED  
COOPERATIVE WORK-  
STUDY PROGRAMS  
3, 3/0; offered based  
on staff availability**  
*Prerequisite: VTE 450.* A course for those interested in conducting effective instruction in diversified cooperative programs, including how to interview employers, supervise trainees, interpret legal aspects, prepare records and reports, and conduct classes in related theory.

## WOMEN'S STUDIES

Interdisciplinary Minor  
Rafika Merini, Coordinator  
Foreign Language Department  
Bishop Hall 222

**ANT 340  
WOMEN IN ANTHROPOLOGICAL  
PERSPECTIVE  
3, 3/0; F 00 GCS**  
*Prerequisite: A course in the natural or social sciences, or upper-division status, or consent of the instructor.* The study of women's position in human society, with attention given to biological, social, and cultural influences on female status in cross-cultural and evolutionary perspective.

**ANT 369 (ib)  
FOLKLORE OF WOMEN  
3, 3/0; Sp 00**  
*Prerequisite: ANT 101 or ANT 144, or a women's studies or social science course, or upper-division status.* A survey of women's folklore and contemporary culture: women as traditional creators and performers seen through expressive forms such as singing, songwriting, storytelling, foodways, folk art and crafts, and customary behavior. The course will also consider the role of folklore in the formation of sexual stereotypes.

**BIO 322  
HUMAN HEREDITY  
3, 3/0; offered based  
on staff availability CM**  
*Prerequisite: BIO 100 and upper-division status.* A course in human inheritance and social implications of genetics to modern society. *Open to non-majors only.*

**BIO 324  
BIOLOGY OF HUMAN  
REPRODUCTION  
3, 3/0; offered based  
on staff availability CM**  
*Prerequisite: BIO 100 and upper-division status.* A course in the anatomy and physiology of the human reproductive system, development of the human embryo, and the processes of birth and lactation. *Open to non-majors only.*

**COM 333  
MINORITY VOICES  
AND THE MEDIA  
3, 3/0; 1999-01 D**  
*Prerequisite: Junior or senior standing or consent of instructor.* A critical exploration of representation in the media, focusing on women, African-Americans, gays and lesbians, and other traditionally underrepresented groups.

**ECO 302  
WOMEN IN THE ECONOMY  
3, 3/0; Sp 00, 01 D**  
*Prerequisite: ECO 201 or ECO 202 recommended.* An examination of women's position in the U.S. economy, how it has changed, how it compares to men's position and to women's position in other countries. A study of the theoretical and empirical issues in analyzing women's economic status.

**ENG 231  
WOMEN IN LITERATURE:  
SELECTED TOPICS  
3, 3/0; Sp 00, 01 CH**  
An examination of the images of women in literature as they reflect attitudes about women and their roles. Emphasis on authors and eras varies with instructors.

**FTT 347  
CLOTHING IN RELATION TO  
HUMAN BEHAVIOR  
3, 3/0; Sp 01**  
An exploration of the cultural, communicative, sociological, and psychological functions of dress as they relate to human behavior. Topics include the cultural universalities and diversities of dress, the interpretation of the communicative language of clothing, psychological clothing needs of the life cycle, clothing needs of the disabled, and contemporary issues related to dress.

**FTT 348  
HISTORY OF COSTUME  
3, 3/0; Sp 99**  
The study of the development of Western dress from the earliest periods in history to the present. Emphasis will be placed on the societal influences that drove fashion style changes. Consideration of the impact of other cultures on this development and on modern dress.

**FLA 346  
WOMEN IN FOREIGN LITERATURE  
3, 3/0**  
*Prerequisite: Basic literature course or consent of instructor.* French women writers from the Middle Ages to the present with an emphasis on George Sand, Simone de Beauvoir, and Marguerite Duras. An analysis of women writers from Spain, Latin America, and the United States. Portrayals of German-speaking women from the medieval epic writings to the post-unification era. In English.

**HIS 302  
HISTORY OF WOMEN IN AMERICA  
3, 3/0; offered based  
on staff availability D**  
The impact of women on American development from colonial time to the present; effects of history on the roles and status of women; changes in women's role in the family, economic contributions, legal status, struggle for equal rights; women and demographic changes; developing perceptions of women about society; political growth and women; our society's regard for women in a historical context; and the differences and/or similarities between women from various ethnic, racial, religious, and socioeconomic groups.

**PHI 303  
WOMEN AND RELIGION  
3, 3/0; F 00 G**  
*Prerequisite: Completion of ENG 102 requirement and junior or senior standing, or one course in philosophy.* An introduction to the global study of women and religion with special attention to their contributions to religious thought and practice. Women's spirituality and its effects in the developed and developing world will be stressed.

**PSC 225  
WOMEN IN AMERICAN POLITICS  
3, 3/0; Sp 00 DCS**  
Defines influences on female participation in the American political system; analyzes the political behavior of American women; and examines the implications of these influences and behaviors.

**PSY 383  
THE PSYCHOLOGY OF HUMAN  
SEXUAL BEHAVIOR  
3, 3/0; 1999-01**  
*Prerequisites: PSY 101 and 42 additional college credits.* This course will

focus on the psychosexual aspects of human sexuality. Topics include: historical views of human sexuality, sex research, physiology of sex, gender identity, puberty, early learning of sexuality, heterosexuality, homosexuality and bisexuality, ways of sex, sexual minorities, social and legal issues of sex, portrayal and handling of sex in the media, sexual difficulties, eroticism, social psychological attitudes toward sex, and future trends of sexuality.

**PSY 387  
PSYCHOLOGY OF  
GENDER DIFFERENCES  
3, 3/0; F 00 D**  
*Prerequisites: PSY 101 and 42 additional college credits.* This course focuses on the empirical and theoretical issues concerned with the psychology of gender issues. The differences in the ways that female and males behave will be examined in terms of such social factors as conformity to societal pressures, sex-role stereotyping, and different socialization patterns for the two genders. Other topics include: biological influences on gender differences, development of sex differences, gender-role development, sex differences in cognition, personality, achievement, and leadership.

**SOC 310  
SOCIOLOGY OF SEX ROLES  
3, 3/0; 1999-01 DCS**  
*Prerequisite: SOC 100.* A critical examination of the roles women and men play in various societies, with particular emphasis on changes in contemporary America. Social statuses of women and men will be analyzed historically and biologically, with particular attention given to the sociological implications of sexual inequality in the economy and political systems, as well as in marriage and family relationships.

**SOC 312  
WOMEN IN SOCIETY  
3, 3/0; Sp 00, 01 DCS**  
*Prerequisite: Sophomore, junior, or senior standing.* A multifaceted analysis of women in society. Students will be exposed to women's issues in relation to the social and natural sciences. Students will be encouraged to critically examine modern societies in light of women's perspectives. Formerly SOC 210.

**SOC 320  
SOCIOLOGY OF THE FAMILY  
3, 3/0; 1999-01 CS**  
*Prerequisite: SOC 100.* Family as a social institution; its historical development, function, and structure; cross-cultural comparison; subcultural analysis of the contemporary American family system. Discussion of alternatives to living in families and of sex roles and sex role change.



# ADMINISTRATION

## Buffalo State College Officers

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*Interim Provost and Vice President  
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*Vice President for Student Affairs*

Stanley Kardonsky, Ph.D.  
*Vice President for Finance and Management*

Carmine A. Grande, DPS, CFRE  
*Vice President for Institutional Advancement and  
Development and Executive Director of the  
Buffalo State College Foundation*

## President of the College

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Bonita R. Durand, M.S.  
*Executive Assistant to the President*

Dolores E. Battle, Ph.D.  
*Senior Adviser to the President for Equity  
and Campus Diversity*

## Interim Provost and Vice President for Academic Affairs

Dennis K. Ponton, Ph.D.

**Executive Vice Provost for Budget**  
Appointment pending

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Educational Opportunity Program Interim Director  
Cynthia Eggleston, M.S.Ed.

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Lesia Lorits, M.A.

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Shirley A. Bennett-Fenty, Ph.D.

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Leon Smith, Ph.D.

New Student Programs and Academic  
Advisement Interim Director  
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**Interim Dean of Graduate Studies  
and Research**  
Thomas G. Kinsey, Ph.D.

Center for Development of  
Human Services Director  
Appointment pending

Center for Applied Research in Interactive  
Technologies Director  
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Research Services and Administration  
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Small Business Development Center Director  
Susan A. McCartney, M.B.A.

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Richard J. Lee, Ed.D.

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Computer Information Systems  
Lawrence W. Scott, Ph.D.

Center for Studies in Creativity  
Gerard J. Puccio, Ph.D.

Criminal Justice  
Charles E. Reasons, Ph.D.

Educational Foundations  
Betty J. Cappella, Ph.D.

Elementary Education and Reading  
Maria A. Ceprano, Ph.D.

Exceptional Education  
Sarita C. Samora, Ph.D. (Interim)

Nutrition, Hospitality, and Fashion  
Suk Y. Oh, Ph.D.

Social Work  
J. Patrick Dexter, Ph.D.

Speech Language Pathology  
Nancy J. Lund, Ph.D.

Technology  
Charles A. Beasley, Ph.D.

Teacher Education and Certification Coordinator  
Rita M. Zientek, M.S.

**Interim Dean, Faculty of Arts and Humanities**  
Dennis McCarthy, M.E.A.

Interim Associate Dean  
Kerran L. Sanger, Ph.D.

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Art Education  
Michael E. Parks, Ed.D.

Communication  
Janet E. Ramsey, Ph.D.

Design  
Stephen F. Saracino, M.E.A.

English  
Craig G. Werner, Ph.D.

Fine Arts  
Sylvia D. Bakos, Ph.D.

Foreign Language  
Lucy M. Schwartz, Ph.D.

Performing Arts  
Donna McCarthy, M.A.

Philosophy and Religious Studies  
George T. Hole, Ph.D.

Performing Arts Center Managing Director  
Randy Lee Mayes, M.B.A.

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Randal J. Snyder, Ph.D.

Chemistry  
Gregory W. Ebert, Ph.D.

Earth Sciences and Science Education  
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Raymond W. Waxmonsky, Ph.D.

Health and Wellness  
Chester J. Zelasko, Ph.D.

History and Social Studies Education  
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Tom Giambrone, Ed.D.

Physics  
Dewayne A. Beery, Ph.D.

Political Science  
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Psychology  
Jerry F. Cataldo, Ph.D.

Sociology  
Virginia E. Grabiner, Ph.D.

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Joan L. McCool, Ph.D.

Residence Life Director  
Timothy R. Ecklund, M.S.

Student Health Services Director and  
Medical Director, Weigel Health Center  
Theresa R. Stephan Hains, M.D.

Career Development Center Director  
Stephanie B. Zuckerman-Aviles, M.Ed.

Intercollegiate Athletics Director  
Alfonso Scandrett Jr., Ph.D.

## Auxiliary Services

Child Care Center Director  
Daniel Thiel, B.S.

Faculty-Student Association Executive Director  
Gary E. Vickers, M.B.A.

Buffalo State Campus Dining Services Director  
William J. Baker, B.S.

Buffalo State Bookstore Director  
Lynn M. Horan, B.S.

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**Associate Vice President and Comptroller**  
Gary J. Phillips, C.P.A., Ed.M.

**Associate Vice President,  
Human Resource Management**  
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Budget and Information Services Director  
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Burchfield-Penney Art Center Director  
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Campus Services and Facilities Director  
Terry M. Harding, B.A.

College Relations Director  
Patricia Chambers Alessandra, B.A.

Computing Services Director  
Judith B. Basinski, M.B.A.

Environmental Health and Safety Director  
David N. Miller, A.A.S.

Facilities Maintenance Director  
Gary H. Kent, M.B.A.

Human Resource Development Director  
Susan J. Earshen, M.B.A.

Purchasing Director  
Marcia Slawinowski

Student Accounts Director  
Richard T. Augustine, M.S.

SUNY Information Technology Exchange Center  
(ITEC) Director  
Ronald N. Brown Jr., B.A.

University Police Chief  
Louis A. Ward

## Vice President for Institutional Advancement and Development and Executive Director of the Buffalo State College Foundation

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Kathryn A. Ward, M.S.

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Harriet Rockwell Vogelsang  
Wayne D. Wisbaum  
Benjamin Zuffranieri



# FACULTY

Date indicates year bired at Buffalo State

## Distinguished Service Professors

Nuala M. Drescher, Ph.D., *University of Delaware*, History and Social Studies Education (1965)  
Edward O. Smith Jr., Ph.D., *Lehigh University*, Department Chair of History and Social Studies Education (1963)  
F Christopher Tahk, Ph.D., *University of Rochester*, Department Chair of Art Conservation (1983)

## Distinguished Teaching Professors

George T. Hole, Ph.D., *University of Rochester*, Department Chair of Philosophy and Religious Studies (1965)  
Marvin J. LaHood, Ph.D., *University of Notre Dame*, English, SUNY Chancellor's Award for Excellence in Teaching (1964)  
Dan A. Kushel, M.A., *Cooperstown*, Art Conservation (1983)

## Anthropology Department

Jill Nash, Ph.D., *Harvard University*, Chair and Professor (1974)  
Simeon W. Chilungu, Ph.D., *University at Buffalo*, Associate Professor (1970)  
William E. Engelbrecht, Ph.D., *University of Michigan*, Professor, SUNY Chancellor's Award for Excellence in Teaching (1973)  
Lydia M. Fish, Ph.D., *Indiana University*, Professor (1967)  
Dennis L. Gaffin, Ph.D., *University at Buffalo*, Associate Professor (1989)  
Donald D. Mitchell, Ph.D., *Harvard University*, Professor (1974)

## Art Conservation Department

F Christopher Tahk, Ph.D., *University of Rochester*, Chair and Distinguished Service Professor (1983)

Irene Brueckle, B.A., *Empire State College*, Assistant Professor (1994)  
James F Hamm, M.A., *SUNY College at Oneonta*, Associate Professor (1986)  
Dan A. Kushel, M.A., *Cooperstown*, Distinguished Teaching Professor (1983)  
Jonathan L. Thornton, M.A., *Cooperstown*, Professor (1983)

## Art Education Department

Michael E. Parks, Ed.D., *Ball State University*, Chair and Professor (1981)  
Lucy Andrus, M.S.Ed., *Buffalo State College*, Associate Professor (1982)  
Katherine B. Hartman, M.A., *University at Buffalo*, Associate Professor (1980), Chancellor's Award for Excellence in Teaching  
Layman H. Jones Jr., D.Ed., *Pennsylvania State University*, Professor (1966)  
Joseph R. Piccillo, M.S.Ed., *Buffalo State College*, Professor (1967)  
John F. Siskar, Ed.M., *University at Buffalo*, Lecturer (1992)  
John P. Truax, Ph.D., *University at Buffalo*, Assistant Professor (1981)  
Carole Woodlock, M.E.A., *Concordia University*, Lecturer (1994)  
Mary L. Wyrick, Ph.D., *Pennsylvania State University*, Associate Professor (1992)

## Biology Department

Randal J. Snyder, Ph.D., *University of California*, Chair and Associate Professor (1990)  
Gail Dinter-Gottlieb, Ph.D., *Weizmann Institute of Science*, Professor and Dean of the Faculty of Natural and Social Sciences (1996)  
Beverly D. Dow, Ph.D., *University of Illinois*, Assistant Professor (1998)  
Douglas P. Easton, Ph.D., *University of Iowa*, Associate Professor (1977)  
James D. Haynes, Ph.D., *Iowa State University*, Professor (1967)

Hadar Isseroff, Ph.D., *Purdue University*, Professor (1968)  
Martin G. Kelly, Ph.D., *University of Texas*, Assistant Professor (1998)  
Javier Peñalosa, Ph.D., *Harvard University*, Associate Professor (1978)  
Gary W. Pettibone, Ph.D., *Bowling Green State University*, Associate Professor (1986)  
Howard P. Riessen, Ph.D., *Yale University*, Associate Professor (1988)  
Edward A. Standora, Ph.D., *University of Georgia*, Associate Professor (1985)  
Gregory J. Wadsworth, Ph.D., *North Carolina State University*, Associate Professor (1992)  
Thomas D. White, Ph.D., *University of California*, Associate Professor (1991)  
Wendel B. Wickland, M.S., *Eastern Michigan University*, Assistant Professor and Special Programs Director (1964)

## Business Department

Michael J. Littman, Ph.D., *Ohio State University*, Chair and Associate Professor (1986)  
Solochidi oL.Ahiarah, Ph.D., *University of Pittsburgh*, Associate Professor (1990)  
Mary A. Davis, Ed.D., *University at Buffalo*, Associate Professor (1977)  
John L. DeNisco, M.B.A., *Canisius College*, Associate Professor (1982)  
Leonard R. Graziplene, Ph.D., *University at Buffalo*, Professor (1968)  
Dale W. Janowsky, M.S., *Canisius College*, Assistant Professor (1981)  
Andrew J. Joniak, Ph.D., *University of New Mexico*, Associate Professor (1974)  
Joseph M. Kelly, J.D., *Northern Illinois University*, Professor (1990)  
Thomas J. Morrissey, Ed.D., *University of Missouri*, Professor (1967)  
Kevin F. Mulcahy, Ed.D., *University of California*, Associate Professor (1992)  
Daniel S. Ricigliano, M.B.A., *University at Buffalo*, Assistant Professor (1979)  
Benjamin D. Sackmar, Ph.D., *University of Massachusetts*, Professor (1988)  
Lynne M. Scalia, M.B.A., *Niagara University*, Associate Professor (1983)  
Howard Stanger, Ph.D., *Ohio State University*, Assistant Professor (1994)

## Chemistry Department

Gregory W. Ebert, Ph.D., *University of Nebraska*, Chair and Professor (1985)  
Kimberly A. Bagley, Ph.D., *University of Illinois*, Associate Professor (1993)  
Thomas A. Donovan, Ph.D., *University of Illinois*, Professor (1968)  
William S. Durfee, Ph.D., *Case Western Reserve*, Assistant Professor (1995)  
M. Scott Goodman, Ph.D., *Arizona State University*, Assistant Professor (1996)  
Maria D. Pacheco, Ph.D., *University of Puerto Rico*, Associate Professor (1985)  
Surjit Singh, Ph.D., *Saint Louis University*, Professor (1967)

## Communication Department

Janet E. Ramsey, Ph.D., *University at Buffalo*, Chair and Professor (1985)  
Charles Y. Adair, M.A., *University of Missouri*, Associate Professor (1984)  
Timothy J. Brown, Ph.D., *Ohio University*, Assistant Professor (1997)  
Bruce G. Bryski, Ph.D., *Pennsylvania State University*, Associate Professor (1983)  
Paul J. DeWald, M.S., *University at Buffalo*, Assistant Professor (1967)  
Marian T. Deutschman, Ph.D., *University at Buffalo*, Associate Professor (1985)  
Thomas R. McCray, M.A., *University at Buffalo*, Associate Professor (1980)  
Emile C. Netzhammer III, Ph.D., *University of Utah*, Professor and Interim Associate Vice President for Enrollment Management (1987)  
Ronald L. Rabin, Ph.D., *Northwestern University*, Associate Professor (1976)  
William E. Raffel, J.D., M.A., *University at Buffalo*, Lecturer (1998)  
Kerran L. Sanger, Ph.D., *Pennsylvania State University*, Associate Professor and Interim Associate Dean of the Faculty of Arts and Humanities, SUNY Chancellor's Award for Excellence in Teaching (1988)

Ronald D. Smith, M.S., *Syracuse University*, Associate Professor (1990)  
Bradford R. Watts, M.A., *Buffalo State College*, Lecturer (1997)  
W. Richard Whitaker, Ph.D., *Ohio University*, Professor (1984)

## Computer Information Systems Department

Lawrence W. Scott, Ph.D., *University at Buffalo*, Chair and Associate Professor (1977)  
John T. Favata, Ph.D., *University at Buffalo*, Assistant Professor (1997)  
William Lin, Ph.D., *University at Buffalo*, Associate Professor (1984)  
Carl H. Nacher, M.S., *University at Buffalo*, Associate Professor (1980)  
Anthony J. Nowakowski, Ph.D., *University at Buffalo*, Associate Professor (1986)  
Barbara A. Sherman, Ph.D., *University at Buffalo*, Assistant Professor (1994)  
Charles J. Wertz, M.S., *University at Buffalo*, Associate Professor (1982)

## Center for Studies in Creativity

Gerard J. Puccio, Ph.D., *University of Manchester Institute of Science and Technology (UK)*, Chair and Associate Professor (1990)  
Jon Michael Fox, M.S., *Buffalo State College*, Lecturer (1997)  
Mary C. Murdock, Ed.D., *University of Georgia*, Associate Professor (1987)

## Criminal Justice Department

Charles E. Reasons, Ph.D., *Washington State University*, Chair and Professor (1997)  
James G. Fox, Ph.D., *SUNY at Albany*, Professor (1981)  
James R. Gillham, Ph.D., *University of Illinois at Urbana-Champaign*, Professor (1977)  
Scott L. Johnson, Ph.D., *Pennsylvania State University*, Assistant Professor (1994)  
Sam Maislin, J.D., *Salmon P. Chase College of Law*, Associate Professor (1975)  
Caroline Patchel, Ph.D., *University at Buffalo*, Assistant Professor (1994)  
Robert D. Pursley, D.P.A., *University of Georgia*, Professor (1987)  
Debra E. Ross, Ph.D., *Rutgers University*, Assistant Professor (1996)  
John H. L. Song, Ph.D., *University of California at Irvine*, Associate Professor (1988)

## Design Department

Stephen F. Saracino, M.F.A., *Kent State University*, Chair and Professor (1981)  
James P. Astrella, M.E.A., *Syracuse University*, Associate Professor (1983)  
Lori M. Christmastree, M.F.A., *Wayne State University*, Professor (1981)  
Suzann P. Denny, M.S., *Syracuse University*, Professor (1974)  
John J. Jauquet, M.F.A., *University of Wisconsin*, Professor (1968)  
Arlette J. Klaric, Ph.D., *University of Wisconsin*, Assistant Professor (1995)  
Jane B. Lily, M.A., *California Polytechnic State University*, Assistant Professor (1996)  
Sharon R. Mendola, M.E.A., *Syracuse University*, Professor (1983)  
James F. Morris, M.F.A., *University of Massachusetts*, Associate Professor (1985)  
Terry A. Postero, M.E.A., *University of Georgia*, Associate Professor (1993)  
Richard J. Ross, M.F.A., *University of Connecticut*, Assistant Professor (1995)  
Rand L. Schuster, M.F.A., *Rochester Institute of Technology*, Professor (1983)  
Marianne N. Vallet-Sandre, M.S.Ed., *Buffalo State College*, Associate Professor (1973)  
Robert L. Wood, M.E.A., *Indiana State University*, Professor (1987)  
Barry R. Yavener, M.E.A., *Rochester Institute of Technology*, Professor (1985)

## Earth Sciences and Science Education Department

Stephen J. Vermette, Ph.D., *McMaster University*, Chair and Associate Professor (1993)  
Richard J. Batt, Ph.D., *University of Colorado*, Associate Professor (1989)  
Donald L. Bird, Ed.D., *University of North Colorado*, Professor, SUNY Chancellor's Award for Excellence in Teaching (1985)  
Gordon S. Fraser, Ph.D., *University of Illinois*, Professor and Great Lakes Center for Environmental Research and Education Director (1998)  
John A. Grant III, Ph.D., *Brown University*, Associate Professor (1994)  
Robin Lee Harris Freedman, Ph.D., *University of Iowa*, Assistant Professor (1997)  
Robert E. Horvat, Ph.D., *University of Wisconsin, Madison*, Professor (1973)  
Thomas G. Kinsey, Ph.D., *University of Maryland*, Professor and Interim Dean of Graduate Studies and Research (1979)  
John E. Mack Jr., Ph.D., *The Catholic University of America*, Associate Professor (1973)  
John G. Murtaugh, Ph.D., *Ohio State University*, Associate Professor (1973)  
Jill K. Singer, Ph.D., *Rice University*, Professor (1986)

## Economics and Finance Department

Douglas G. Koritz, Ph.D., *University of Pittsburgh*, Chair and Associate Professor (1986)  
Theodore F. Byrley, Ph.D., *University of Cincinnati*, Associate Professor (1984)

Susan M. Davis, Ph.D., *New School for Social Research*, Associate Professor (1985)  
Frederick G. Floss, Ph.D., *University at Buffalo*, Professor (1984)  
William T. Ganley, Ph.D., *University of California at Berkeley*, Professor (1972)  
Curtis Haynes Jr., Ph.D., *University of Massachusetts*, Associate Professor (1993)  
Yung-Mo Kim, Ph.D., *University at Buffalo*, Professor (1968)  
Michael S. Pendleton, D.A., *Idaho State University*, Associate Professor (1979)  
Alex J. Ratkowski, Ph.D., *University of Nebraska*, Associate Professor (1976)  
Ted P. Schmidt, Ph.D., *University of California*, Associate Professor (1990)

## Educational Foundations Department

Betty J. Cappella, Ph.D., *University at Buffalo*, Chair and Professor (1985)  
N. John Popovich, Ed.D., *Wayne State University*, Associate Professor and Vocational Technical Education Coordinator (1974)  
Donald E. Carter, Ed.D., *University at Buffalo*, Professor (1964)  
David T. Converse, Ph.D., *University of Nebraska*, Associate Professor (1964)  
Wanda M. Davis, D.Ed., *Pennsylvania State University*, Associate Professor (1994)  
Frank P. Diulus, Ph.D., *University of Pittsburgh*, Associate Professor (1973)  
Timothy L. Gallineau, D.Ed., *University of Akron*, Associate Professor (1994)  
James A. Gold, D.Ed., *Pennsylvania State University*, Professor (1977)  
Albert Grande, Ph.D., *University of Pittsburgh*; J.D., *University at Buffalo*, Professor (1970)  
Frederick C. Howe, Ph.D., *Michigan State University*, Professor (1972)  
P. Rudolph Mattai, Ph.D., *University of Pittsburgh*, Professor (1990)  
Joseph J. Moran, Ph.D., *Emory University*, Professor (1973)  
Derek C. Mulenga, M.A., *University of Hull (UK)*, Assistant Professor (1997)  
Mary E. Nix, Ph.D., *University of North Carolina*, Associate Professor (1994)  
James L. Palermo, Ph.D., *University at Buffalo*, Professor, SUNY Chancellor's Award for Excellence in Teaching (1968)  
Thomas J. Quatroche, D.Ed., *Pennsylvania State University*, Professor, SUNY Chancellor's Award for Excellence in Teaching (1964)  
James D. Rotella, Ed.D., *University at Buffalo*, Professor (1968)  
Kathlyn Y. Wiggins-Jones, Ph.D., *University at Buffalo*, Assistant Professor (1997)

## Elementary Education and Reading Department

Maria A. Ceprano, Ph.D., *University at Buffalo*, Chair and Professor (1997)  
John E. Beaver, Ph.D., *Michigan State University*, Professor (1988)  
Elfreda V. Blue, Ph.D., *University at Buffalo*, Lecturer (1995)  
Richard F. Frazita, Ed.D., *University at Buffalo*, Professor (1969)  
Julie J. Henry, Ph.D., *University at Buffalo*, Assistant Professor (1998)  
Kay Johnson-Gentile, Ph.D., *University at Buffalo*, Associate Professor (1990)  
Dan L. King, D.Ed., *Wayne State University*, Professor and Dean of the Faculty of Applied Science and Education (1998)  
Peter W. Lochr, Ph.D., *Kent State University*, Associate Professor (1996)  
Rosemary P. Lonberger, Ph.D., *University at Buffalo*, Associate Professor (1991)  
Muriel A. Moore, Ph.D., *University at Buffalo*, Professor and President of the College (1996)  
Rosemary K. Murray, Ed.D., *University at Buffalo*, Associate Professor (1980)  
Wendy A. Paterson, Ph.D., *University at Buffalo*, Assistant Professor, SUNY Chancellor's Award for Excellence in Professional Service (1987)  
Stephen F. Phelps, Ph.D., *Syracuse University*, Professor (1978)  
Carol A. Stevens, Ph.D., *Cleveland State University*, Associate Professor (1992)  
Diane M. Truscott, Ph.D., *University at Buffalo*, Assistant Professor (1997)  
Sarah D. Weidler, Ph.D., *Pennsylvania State University*, Associate Professor (1987)  
George J. Wenner, Ph.D., *University at Buffalo*, Associate Professor (1990)

## English Department

Craig G. Werner, Ph.D., *Harvard University*, Chair and Associate Professor (1984)  
Ana M. Acosta, Ph.D., *Columbia University*, Assistant Professor (1997)  
Charles R. Bachman, Ph.D., *Indiana University*, Professor (1965)  
Geraldine E. Bard, Ph.D., *University at Buffalo*, Professor (1971)  
Barbara T. Bontempo, Ed.D., *Indiana University*, Professor (1988)  
Ann C. Colley, Ph.D., *University of Chicago*, Professor (1985)  
Nancy B. Deal, Ph.D., *Michigan State University*, Assistant Professor (1993)  
John F. Dwyer, Ph.D., *University at Buffalo*, Associate Professor (1970)  
Bernhard Frank, Ph.D., *University of Pittsburgh*, Professor (1965)  
June I. Hesch, Ph.D., *University at Buffalo*, Associate Professor (1980)  
Melvin J. Hoffman, Ph.D., *University at Buffalo*, Professor (1968)  
David L. Karnath, Ph.D., *University of Minnesota*, Associate Professor (1979)  
E. Carole Brown Knuth, Ph.D., *University at Buffalo*, Professor (1973)  
Marvin J. LaHood, Ph.D., *University of Notre Dame*, Distinguished Teaching Professor, SUNY Chancellor's Award for Excellence in Teaching (1964)  
David E. Lampe, Ph.D., *University of Nebraska*, Professor (1969)  
David W. Landrey, M.A., *University at Buffalo*, Associate Professor (1965)  
Susan Mondschein Leist, Ed.D., *University of Virginia*, Associate Professor and Coordinator of Humanities Program (1991)  
Anthony J. Lewis, Ph.D., *University of Wisconsin*, Professor (1970)



Kevin J. Railey, Ph.D., *SUNY at Stony Brook*, Associate Professor (1991)  
Thomas J. Reigstad, Ph.D., *University at Buffalo*, Professor (1981)  
Joan W. Roberts, Ph.D., *University of Cincinnati*, Professor (1978)  
Karen Sands, M.A., *Hollins College*, Lecturer (1997)  
Aimable Twagilimana, Ph.D., *University at Buffalo*, Assistant Professor (1995)  
Ralph L. Wahlstrom, Ph.D., *Michigan Technological University*, Assistant Professor (1997)

#### Exceptional Education Department

Sarita C. Samora, Ph.D., *University at Buffalo*, Interim Chair and Associate Professor (1981)  
  
R. Bruce Baum, Ed.D., *Indiana University*, Associate Professor (1972)  
Judith A. Bondurant-Utz, Ed.D., *University of Cincinnati*, Professor (1977)  
Sharon F. Cramer, Ph.D., *New York University*, Professor (1985)  
Linda K. Gleckel, M.S.Ed., *Buffalo State College*, Assistant Professor and Interim Special Assistant to the Provost for Academic Support Services (1971)  
Warren L. Gleckel, Ph.D., *Syracuse University*, Associate Professor (1975)  
Carmen J. Iannaccone, Ed.D., *University at Buffalo*, Professor (1966)  
Richard J. Lee, Ed.D., *University at Buffalo*, Associate Professor, Associate Dean of the Faculty of Applied Science and Education, SUNY Chancellor's Award for Excellence in Professional Service (1970)  
Laurie L. McCarty, Ph.D., *New Mexico State University*, Assistant Professor (1997)  
Michaelene M. Meger, Ph.D., *University at Buffalo*, Assistant Professor (1996)  
David J. Pomerantz, Ph.D., *University of Illinois*, Associate Professor (1977)  
Mark P. Posluszny, Ed.D., *University of Kentucky*, Associate Professor (1985)  
Sharon L. Raimondi, Ph.D., *American University*, Associate Professor (1986)  
Katherine C. Sacca, Ed.D., *University at Buffalo*, Associate Professor (1979)  
Maureen A. Smith, Ph.D., *University at Buffalo*, Associate Professor (1992)  
Phillip A. Weaver, Ph.D., *University of Michigan*, Associate Professor (1969)  
Idajean Windell, Ed.D., *Indiana University*, Associate Professor (1973)

#### Fine Arts Department

Sylvia D. Bakos, Ph.D., *Rutgers University*, Chair and Associate Professor (1990)  
  
Harriet Blitzer, Ph.D., *Indiana University*, Assistant Professor (1997)  
Robert W. Brock, M.E.A., *Ohio University*, Professor (1962)  
Lin Xia Jiang, M.F.A., *University of Utah*, Associate Professor (1995)  
Francis R. Kowsky, Ph.D., *Johns Hopkins University*, Professor (1970)  
Leslie R. Krims, M.F.A., *Pratt Institute*, Professor (1969)  
Paul D. Martin, M.E.A., *Southern Illinois University*, Professor (1961)  
Joseph A. Miller, M.E.A., *Southern Illinois University*, Assistant Professor (1997)  
Constance L. Payne, M.E.A., *University of Wisconsin*, Associate Professor (1985)  
Kenneth P. Payne, M.E.A., *University of Wisconsin*, Associate Professor (1990)  
Peter J. Sowiski, M.E.A., *Ohio State University*, Professor (1974)  
James L. Sylvia, M.E.A., *University at Buffalo*, Professor (1977)

#### Foreign Language Department

Lucy M. Schwartz, Ph.D., *Harvard University*, Chair and Professor (1995)  
  
Maria L. Assad, Ph.D., *University at Buffalo*, Professor (1984)  
Heidi E. Faletti, Ph.D., *University of California*, Associate Professor (1984)  
Gisele C. Feal, Ph.D., *University of Michigan*, Professor (1973)  
Lee Ann Grace, Ph.D., *University at Buffalo*, Associate Professor and Director of International Education (1973)  
Andrea Guiati, Ph.D., *Rutgers University*, Professor and Coordinator of Honors Program, SUNY Chancellor's Award for Excellence in Teaching (1985)  
Deborah L. Hovland, Ph.D., *University of Minnesota*, Associate Professor (1992)  
Michael Johnson, Ph.D., *University at Buffalo*, Associate Professor (1976)  
Carol B. Kirby, Ph.D., *University of Kentucky*, Professor (1985)  
Mark G. Littlefield, Ph.D., *University of California*, Professor (1981)  
Jaime E. Martinez-Tolentino, Ph.D., *University of Madrid, University of Massachusetts*, Assistant Professor (1990)  
Eliane McKee, Ph.D., *Ohio State University*, Professor, SUNY Chancellor's Award for Excellence in Teaching (1985)  
Rafika Merini, Ph.D., *Binghamton University*, Associate Professor and Coordinator of Women's Studies Interdisciplinary Unit (1990)  
Joseph V. Nardiello, Ph.D., *Johns Hopkins University*, Associate Professor (1969)  
Raul F. Neira, Ph.D., *University of Texas*, Associate Professor (1991)  
Jose Javier Ortiz-Calderon, Ph.D., *University of North Carolina*, Assistant Professor (1991)  
Neil H. Rudin, Ph.D., *University at Buffalo*, Associate Professor (1969)

#### General Studies Interdisciplinary Unit

Margaret Shaw, Ed.D., *Northern Illinois University*, Coordinator (1997)

#### Geography and Planning Department

Raymond W. Waxmonsky, Ph.D., *University of Illinois*, Chair and Professor (1968)  
Kimberley N. Irvine, Ph.D., *McMaster University*, Professor (1988)  
Theodore W. Kury, Ph.D., *Louisiana State University*, Professor (1963)

Gregory P. Stein, Ph.D., *University of Minnesota*, Associate Professor (1970)  
Tao Tang, Ph.D., *University of Wisconsin*, Assistant Professor (1998)

#### Health and Wellness Department

Chester Zelasko, Ph.D., *Michigan State University*, Chair and Associate Professor (1990)  
  
Catherine G. Ansuini, Ed.D., *University at Buffalo*, Associate Professor (1988)  
Richard D. Heller, M.A., *Wayne State University*, Professor (1965)  
Frank J. Pascarella, Ed.D., *University at Buffalo*, Associate Professor, SUNY Chancellor's Award for Excellence in Teaching (1970)  
Scott W. Roberts, Ed.D., *Brigham Young University*, Associate Professor (1986)  
Stephen E. Schwartz, Ph.D., *Ohio State University*, Professor (1974)

#### History and Social Studies Education Department

Edward O. Smith Jr., Ph.D., *Lehigh University*, Chair and Distinguished Service Professor (1963)  
  
David A. Carson, Ph.D., *Texas Christian University*, Associate Professor (1983)  
Nuala M. Drescher, Ph.D., *University of Delaware*, Distinguished Service Professor (1965)  
Donald R. Hetzner, Ed.D., *University at Buffalo*, Professor (1970)  
Henry J. Lang, Ph.D., *Indiana University*, Professor (1968)  
Kenneth S. Mernitz, Ph.D., *University of Missouri*, Associate Professor (1985)  
William I. Mitchell, Ph.D., *University of Missouri*, Associate Professor (1991)  
Andrew D. Nicholls, Ph.D., *University of Guelph*, Assistant Professor (1998)  
Ralph J. Raico, Ph.D., *University of Chicago*, Professor (1967)  
Julius P. Slavenas, Ph.D., *University of Chicago*, Professor (1962)

#### Library

Maryruth Glogowski, M.L.S., *University at Buffalo*, Librarian and Director (1975)  
  
Donna J. Davidoff, M.L.S., *University at Buffalo*, Associate Librarian (1987)  
Mary Karen Delmont, M.A., *University at Buffalo*, Librarian/College Archivist, SUNY Chancellor's Award for Excellence in Librarianship (1972)  
Gail M. Ellmann, M.L.S., *University at Buffalo*, Associate Librarian (1972)  
Randolph L. Gadikian, M.L.S., *University at Buffalo*, Manager, Information Resources (1981)  
Musa Abdul Hakim, Ph.D., *University at Buffalo*, Senior Assistant Librarian (1998)  
Constance C. Hsu, M.S., *Kansas State Teacher's College*, Associate Librarian (1966)  
Marilyn C. Kihl, M.L.S., *SUNY College at Geneseo*, M.A., *Buffalo State College*, Associate Librarian (1968)  
Maureen A. Lindstrom, M.L.S., *University at Buffalo*, Senior Assistant Librarian (1986)  
Marjorie L. Lord, M.E.A., *University at Buffalo*, Associate Librarian (1969)  
Eleanor T. Munn, M.S., *Simmons College*, Associate Librarian (1986)  
George C. Newman, Ph.D., *University of Michigan*, Librarian (1982)  
Shirley A. Posner, M.L.S., *SUNY College at Geneseo*, Librarian, SUNY Chancellor's Award for Excellence in Librarianship (1966)  
Carol J. Richards, M.L.S., *University at Buffalo*, Librarian, SUNY Chancellor's Award for Excellence in Librarianship (1974)  
Albert F. Riess, M.L.S., *University at Buffalo*, Librarian (1979)  
Amy DiBartolo Rockwell, M.L.S., *University at Buffalo*, Associate Librarian (1987)  
Wanda M. Slawinska, M.S., *Syracuse University*, Senior Assistant Librarian (1973)  
Hilary I. Sternberg, M.L.S., *University at Buffalo*, Associate Librarian (1990)  
Barbara J. Vaughan, M.L.S., *University at Buffalo*, Associate Librarian (1982)

#### Mathematics Department

Tom M. Giambrone, Ed.D., *University at Buffalo*, Chair and Professor (1990)  
  
Joseph Barback, Ph.D., *Rutgers University*, Professor (1969)  
Joaquin O. Carbonara, Ph.D., *University of California, San Diego*, Associate Professor (1992)  
Scott W. Crass, Ph.D., *University of California*, Assistant Professor (1997)  
Daniel W. Cunningham, Ph.D., *University of California*, Associate Professor (1991)  
Robert C. Frascatore, M.A., *University of Maine*, Associate Professor (1967)  
Kelly A. Gaddis, Ph.D., *Cornell University*, Assistant Professor (1994)  
James Guyker, Ph.D., *Lehigh University*, Professor (1970)  
Luella H. Johnson, Ph.D., *University at Buffalo*, Associate Professor (1990)  
Betty J. Krist, Ed.D., *University at Buffalo*, Professor (1987)  
Sarah T. Lubienski, Ph.D., *Michigan State University*, Assistant Professor (1996)  
Peter R. Mercer, Ph.D., *University of Toronto*, Assistant Professor (1997)  
Robin Sue Sanders, Ph.D., *University of Illinois*, Assistant Professor (1997)  
Eileen M. Schoaff, Ph.D., *University at Buffalo*, Associate Professor, SUNY Chancellor's Award for Excellence in Teaching (1987)  
John J. Slivka, Ph.D., *University at Buffalo*, Professor (1969)

#### Nutrition, Hospitality, and Fashion Department

Suk Y. Oh, Ph.D., *Colorado State University*, Chair and Professor (1995)  
  
Liza K. Abraham, Ph.D., *Iowa State University*, Assistant Professor (1997)  
Tina M. Colaizzo-Anas, M.A., *University at Buffalo*, Lecturer (1997)

Colleen H. Frey, Ph.D., *University at Buffalo*, Associate Professor (1980)  
Donna M. Hayes, M.S., *Ohio State University*, Assistant Professor (1982)  
Kathleen M. O'Brien, Ed.M., *University at Buffalo*, Lecturer (1989)  
Elaine M. Polvinen, M.E.A., *Rochester Institute of Technology*, Associate Professor (1991)  
Dennis K. Ponton, Ph.D., *West Virginia University*, Associate Professor and Interim Provost and Vice President for Academic Affairs (1977)  
Tejaswini Rao, Ph.D., *Pennsylvania State University*, Associate Professor (1976)  
Cherry M. Searle, Ph.D., *Kansas State University*, Associate Professor (1994)  
Lori L. Till, Ed.D., *University at Buffalo*, Assistant Professor (1985)  
Desna R. Turnbull, Ph.D., *Virginia Polytechnic Institute and State University*, Assistant Professor (1998)

#### Performing Arts Department

Donna E. McCarthy, M.A., *University of Washington*, Chair and Associate Professor (1976)  
  
Carol Y. Beckley, M.E.A., *Southern Methodist University*, Assistant Professor (1994)  
Kenwyn G. Boldt, D.M., *Indiana University*, Professor (1966)  
Daphne A. Finnegan, M.E.A., *University of Utah*, Associate Professor (1978)  
James F. Mabry III, Ph.D., *Washington University*, Professor (1977)  
Charles Mancuso, M.A., *University at Buffalo*, Professor (1976)  
Dennis McCarthy, M.F.A., *Carnegie Mellon University*, Associate Professor and Interim Dean of the Faculty of Arts and Humanities (1977)  
Terence R. McDonald, M.E.A., *Southern Methodist University*, Associate Professor (1972)  
Myron H. Nadel, M.A., *Columbia Teachers College*, Professor (1985)  
Crystal Hearne Reinoso, D.M.A., *University of Michigan*, Associate Professor (1989)  
Thomas E. Witakowski, D.M., *Indiana University*, Assistant Professor (1992)  
Donn M. Youngstrom, M.E.A., *Brooklyn College*, Assistant Professor (1994)

#### Philosophy and Religious Studies Department

George T. Hole, Ph.D., *University of Rochester*, Chair and Distinguished Teaching Professor (1965)  
  
John C. Carbonara, Ph.D., *University at Buffalo*, Professor, SUNY Chancellor's Award for Excellence in Teaching (1964)  
Marianne C. Ferguson, Ph.D., *McMaster University*, Associate Professor (1971)  
James O. Grunbaum, Ph.D., *University of Chicago*, Professor, SUNY Chancellor's Award for Excellence in Teaching (1971)  
David A. Hunter, Ph.D., *Massachusetts Institute of Technology*, Assistant Professor (1997)  
Allen H. Podet, Ph.D., *University of Washington*, D.H.L., *Hebrew Union College*, Professor (1974)  
Lansing R. Pollock, Ph.D., *University of Chicago*, Professor (1970)  
Lee R. Snyder, Ph.D., *University at Buffalo*, Professor (1975)

#### Physics Department

Dewayne A. Beery, Ph.D., *University at Buffalo*, Chair and Associate Professor (1963)  
  
Michael J. DeMarco, Ph.D., *University of Cincinnati*, Professor (1981)  
David J. Ettestad, Ph.D., *Cornell University*, Associate Professor (1986)  
Om P. Rustgi, Ph.D., *University of Southern California*, Professor (1973)  
James W. Wells, Ph.D., *University at Buffalo*, Professor (1968)

#### Political Science Department

Anthony T. Neal, Ph.D., *Atlanta University*, Chair and Associate Professor (1988)  
  
Ram Desai, Ph.D., *Michigan State University*, Professor (1963)  
Lawrence G. Flood, Ph.D., *University of North Carolina at Chapel Hill*, Professor and Associate Dean of the Faculty of Natural and Social Sciences (1977)  
Keith M. Henderson, D.P.A., *University of Southern California*, Professor (1969)  
Abdul H. Raoof, Ph.D., *New York University*, Professor (1967)  
Sarah Slavin, Ph.D., *George Washington University*, Professor (1981)

#### Psychology Department

Jerry E. Cataldo, Ph.D., *University at Buffalo*, Chair and Professor (1969)  
  
Robert P. Delprino, Ph.D., *Old Dominion University*, Associate Professor (1992)  
Gary W. Heiman, Ph.D., *Bowling Green State University*, Associate Professor (1976)  
Jurgis Karuza Jr., Ph.D., *Wayne State University*, Professor (1978)  
Bradley A. Lown, Ph.D., *University at Buffalo*, Professor, SUNY Chancellor's Award for Excellence in Teaching (1970)  
Michael G. MacLean, Ph.D., *Arizona State University*, Assistant Professor (1997)  
John B. Morganti, Ph.D., *University at Buffalo*, Professor, SUNY Chancellor's Award for Excellence in Teaching (1968)  
Jill M. Norvilitis, Ph.D., *Wayne State University*, Assistant Professor (1997)  
Rita Karen O'Quin, Ph.D., *Michigan State University*, Professor (1982)  
Howard M. Reid, Ph.D., *University of Maine at Orono*, Professor (1977)

Pamela Schuetze-Pizarro, Ph.D., *Virginia Polytechnic Institute and State University*, Assistant Professor (1996)  
M. Virginia Wyly, Ph.D., *University of Connecticut*, Professor, SUNY Chancellor's Award for Excellence in Teaching, Associate Vice President for Undergraduate Education (1972)  
Michael J. Zborowski, Ph.D., *Ohio University*, Associate Professor (1991)

#### Social Work Department

J. Patrick Dexter, M.S.W., *University at Buffalo*, Chair and Associate Professor (1977)  
  
Christopher B. Aviles, Ph.D., *SUNY at Albany*, Assistant Professor (1987)  
Louis A. Colca, M.S.W., *University at Buffalo*, Associate Professor (1977)  
Eddie Davis, D.S.W., *University of Utah*, Associate Professor (1994)  
Barbara A. Huddleston-Mattai, D.S.W., *University of California*, Professor (1990)  
Ellen Thomson Kennedy, M.S.W., *University at Buffalo*, Associate Professor (1981)  
Shirley A. Lord, Ph.D., *University at Buffalo*, Professor (1978)  
Ronnie E. Mahler, Ph.D., *University at Buffalo*, Associate Professor (1977)  
Phyllis B. Pomerantz, M.S.W., *University of Illinois at Urbana-Champaign*, Associate Professor (1977)  
Deborah K. Renzi, M.S.W., *SUNY at Stony Brook*, Assistant Professor (1982)  
David P. Wegenast, D.S.W., *City University of New York*, Professor (1973)  
Joseph A. Yogtiba, Ph.D., *University of Alabama*, Assistant Professor (1998)

#### Sociology Department

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Cheryl Marie Albers, Ph.D., *University at Buffalo*, Assistant Professor (1997)  
Carl B. Backman, Ph.D., *Cornell University*, Associate Professor (1985)  
Gerhard J. Falk, Ed.D., *University at Buffalo*, Professor, SUNY Chancellor's Award for Excellence in Teaching (1957)  
Eric J. Krieg, Ph.D., *Northeastern University*, Assistant Professor (1997)  
M. Bahati Kuumba, Ph.D., *Howard University*, Assistant Professor and Coordinator of African and African-American Studies Interdisciplinary Unit (1993)  
Rosalyn A. Lindner, Ph.D., *University of Minnesota*, Professor and Teaching, Learning, and Assessment Center Interim Director (1974)  
Ron Stewart, Ph.D., *Howard University*, Associate Professor (1990)  
Thomas S. Weinberg, Ph.D., *University of Connecticut*, Professor, SUNY Chancellor's Award for Excellence in Teaching (1969)  
Gary S. Welborn, Ph.D., *University at Buffalo*, Assistant Professor (1993)  
Jie Zhang, Ph.D., *Brigham Young University*, Assistant Professor (1997)

#### Speech Language Pathology Department

Nancy J. Lund, Ph.D., *University of Maryland*, Chair and Professor (1973)  
  
Sally A. Arnold, Ph.D., *Northwestern University*, Assistant Professor (1995)  
Gary W. Jones, Ph.D., *University at Buffalo*, Associate Professor (1992)  
Helen M. Thielke, Ph.D., *University of Wisconsin*, Assistant Professor (1998)  
Barbara Weitzner-Lin, Ph.D., *University at Buffalo*, Associate Professor (1985)

#### Technology Department

Charles A. Beasley, Ph.D., *University of Minnesota*, Chair and Professor (1985)  
Peter S. Pawlik, Ph.D., *University at Buffalo*, Professor and Electrical Engineering Technology and Mechanical Engineering Technology Coordinator (1972)  
Deborah Rindfuss Ellis, M.B.A., *University at Buffalo*, Assistant Professor and Industrial Technology Coordinator (1987)  
  
Stephen N. Andre, Ph.D., *Syracuse University*, Associate Professor (1979)  
Proves R. Banks Jr., B.S.E.E., *Wayne State University*, Lecturer (1988)  
D. Steven Barker, Ph.D., *University of Wyoming*, Assistant Professor (1995)  
Richard A. Butz, M.E.A., *SUNY at Alfred*, Associate Professor (1985)  
Mohan S. Devgun, Ph.D., *University of Birmingham (UK)*, Professor (1990)  
John J. Earshen, Ph.D., *University at Buffalo*, Associate Professor (1980)  
Stephanie R. Goldberg, Ph.D., *University at Buffalo*, Associate Professor (1988)  
Ilya Y. Grinberg, Ph.D., *Moscow Civil Engineering Institute*, Assistant Professor (1995)  
Anthony J. Hotchkiss, Ph.D., *University of Southampton*, Assistant Professor (1994)  
David J. Kukulka, Ph.D., *University at Buffalo*, Professor (1982)  
John S. Montague, Ph.D., *University of Wisconsin*, Professor (1984)  
James M. Shea, M.S.Ed., *Buffalo State College*, Associate Professor (1967)  
Richard A. Stempniak, Ph.D., *University at Buffalo*, Assistant Professor (1974)  
Robert J. Zuercher, M.B.A., *University at Buffalo*, Associate Professor (1980)

#### Research Professors

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Faculty list compiled November 1998.



# STAFF

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 Connie F. Cooke, M.S., *Buffalo State College*, Senior Financial Aid Adviser  
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 Kevin P. Cummins, Tennis Coach  
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 Scot R. Eckert, A.A.S., *Niagara County Community College*, Associate Facilities Program Coordinator  
 Timothy R. Ecklund, M.S., *Buffalo State College*, Residence Life Director  
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 Richard B. Engelhardt, B.S., *Buffalo State College*, Academic/Technology Services Manager  
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 Cheryl M. Fellows, B.A., *SUNY College at Geneseo*, Instructional Support Associate, Biology Department  
 Robert M. Filighera, B.S., *Buffalo State College*, Women's Ice Hockey Coach, Assistant Ice Manager  
 Saundra L. Fitzgibbon, Assistant to the President  
 James C. Fowler, B.A., *SUNY College at Fredonia*, Ice Rink Manager and Head Hockey Coach  
 John S. Frederick, Ed.D., *University at Buffalo*, Leadership Education, Service Learning, and Commuter Services Coordinator  
 John J. Freidhoff, B.S., *Gannon University*, Boat Captain/Field Facilities Technician, Great Lakes Center for Environmental Research and Education  
 Maria-Rose Frisina, B.S., *Canisius College*, Client Services Manager  
 Kandis Fuller, B.A., *Buffalo State College*, Alumni Affairs Assistant  
 Carolyn S. Fusco, B.A., *University at Buffalo*, Staff Associate, Arts and Humanities  
 Yves M. Gachette, M.S., *Buffalo State College*, Institutional Research Associate  
 Ann L. Galbraith, M.S., *Buffalo State College*, EOP Counselor  
 Janet H. Ganley, M.S., *Buffalo State College*, Senior Financial Aid Adviser  
 Khaleel M. Gathers, B.S., *Buffalo State College*, Network Support Manager  
 Jody Gawinski, A.S., *Villa Maria College*, Audience Service and Box Office Manager, Performing Arts Center  
 Ronald A. George, M.S., *Niagara University*, Residence Life Assistant Director  
 Philip G. Gerace, B.S.Ed., *Buffalo State College*, Materials Production Coordinator, Instructional Resources  
 Arthur W. Gielow Jr., M.S.Ed., *Buffalo State College*, Instructional Support Specialist, Earth Sciences and Science Education Department  
 Edward S. Gleason, B.S., *Buffalo State College*, Instructional Support Technician, Physics Department  
 Patrick S. Goeller, M.S.N., *University at Buffalo*, Nurse Practitioner  
 Tami R. Goodgain, B.A., *SUNY College at Oswego*, EOP Counselor  
 Jean F. Gounard, Ph.D., *University of Bordeaux*, International Student Affairs Director  
 Katherine M. Grace, Ed.M., *University at Buffalo*, Alumni Career Counselor  
 Carmine A. Grande, DPS, CFRE, *Pace University*, Vice President for Institutional Advancement and Development and Executive Director of the Buffalo State College Foundation  
 Mary E. Greene, B.S., *D'Youville College*, Director of Major Gifts and Planned Giving  
 Jeanne M. Guzy, M.B.A., *Canisius College*, Senior Staff Assistant, Undergraduate Studies  
 Terry M. Harding, B.A., *University at Buffalo*, Campus Services and Facilities Director  
 Gay E. Hardoby, Personnel Associate  
 Lois A. Hellriegel, M.S., *Buffalo State College*, Community Service Programs Coordinator, Lifelong Learning Center  
 Mark F. Henning, Computer Systems Technician  
 Daniel R. Herr, B.S., *Bradley University*, Facilities Engineer  
 Susan Hill, M.A., *University at Buffalo*, Native American Student Services Coordinator  
 Emmanuel J. Hillery, M.S., *University at Buffalo*, Employee Relations Manager  
 Earl M. Hilton III, J.D., *Texas Tech*, Assistant Athletics Director  
 Warren J. Hoffman, Ed.M., *University at Buffalo*, Senior Financial Aid Adviser  
 Sandra L. Hollander, M.S., *Canisius College*, Trainer, Equipment Manager, Softball Coach  
 Timothy G. Hoyle, B.S., *Buffalo State College*, Instructional Support Assistant  
 Donald J. Jacobs, Ph.D., *University at Buffalo*, Center for Applied Research in Interactive Technologies Director

Florence D. Johnson, M.S.Ed., *Buffalo State College*, Student Support Services Director, Academic Skills Center  
 Karen L. Johnson, M.L.S., *University at Buffalo*, Academic Skills Center Interim Director  
 Lauren D. Johnson, Ed.M., *Harvard University*, Senior Career Counselor  
 Deborah Jones, B.S., *Buffalo State College*, Admissions Assistant  
 Juanita Jones, A.A.S., *Erie Community College*, Associate Counselor  
 Michael J. Jurewicz, A.A.S., *Erie Community College*, Repair Technician, Instructional Resources  
 Maria T. Kaan, B.A., *Dowling College*, Senior Alumni Affairs Assistant  
 Stanley Kardonsky, Ph.D., *City University of New York*, Vice President for Finance and Management  
 Suzanne Kashuba, B.S.J., *Ohio University*, Communication Specialist  
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 Carolyn K. Kellogg, M.S.W., *University at Buffalo*, Social Worker  
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 Charles B. Kenyon, Ed.D., *Harvard University*, Assistant Vice President for Student Affairs  
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 Lisa H. Krieger, B.S., *SUNY College at Geneseo*, Instructional Support Technician, Biology Department  
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 Brad C. Ledingham, M.A., *Eastern Michigan University*, Residence Hall Director  
 Adrienne E. Leece, B.A., *Mount Holyoke College*, Foundation Grants Coordinator  
 Micheline P. Lepine, B.S., *Buffalo State College*, Staff Associate  
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 Shirley Mandel, Photographer/Graphic Artist, Instructional Resources  
 Stephen S. Mangione, B.F.A., *Rochester Institute of Technology*, Imaging Specialist, Instructional Resources  
 Paul A. Martello, Sports Information Director  
 Paul J. Marvar, B.S., *Canisius College*, Assistant Sports Trainer  
 David A. Massaro, B.S., *Buffalo State College*, Senior Programmer Analyst  
 Ronald C. Matusiak, B.S., *University at Buffalo*, Instructional Support Technician, Technology Department  
 Randy Lee Mayes, M.B.A., *Indiana University*, Performing Arts Center Managing Director  
 Susan A. McCartney, M.B.A., *University at Buffalo*, Small Business Development Center Director  
 Joan L. McCool, Ph.D., *University at Buffalo*, Counseling Center Director  
 Emma J. McFayden, M.S., *SUNY College at Fredonia*, EOP Counseling Services Assistant Director  
 Kent M. McGowan, Ed.M., *University at Buffalo*, Financial Aid Director  
 Jennifer D. McMahon, Computer Repair Manager  
 Gerald Mead, Curator of Education and Outreach, Burchfield-Penney Art Center  
 Slawko F. Medinac, M.B.A., *University at Buffalo*, Budget and Information Services Director  
 William Menshon, Facilities Manager, Burchfield-Penney Art Center  
 Diane E. Mercuri, Instructional Support Assistant  
 Don Metz, Head of Administration, Burchfield-Penney Art Center  
 Holly Metz, Membership Coordinator and Database Manager, Burchfield-Penney Art Center  
 Barbara A. Meyer, B.A., *Buffalo State College*, Senior Assistant to the Vice President for Finance and Management  
 Ronald N. Meyer, Computer Systems Technician  
 Christine Miller, M.S., *Buffalo State College*, College Accountant



David N. Miller, A.A.S., *Erie Community College*, Environmental Health and Safety Director

Judith A. Miller, M.S., *Buffalo State College*, Associate Registrar

Melanie D. Miller, Staff Assistant

Christopher G. Milton, B.S., *Buffalo State College*, Admissions Recruiter

Wendy S. Mistretta, M.S., *Buffalo State College*, International Education Assistant Director

Jennifer A. Moote, External Development Assistant

Kathryn A. Moran, Ph.D., *University at Buffalo*, Teacher Education Program Adviser, Elementary Education and Reading Department

Carolyn Ann Morris-Hunt, External Development Director

Patricia D. Morton, M.S., *University at Buffalo*, Financial Aid Scholarship Coordinator

Marina R. Moscato, Staff Assistant

Anita M. Muenkel, M.S., *Buffalo State College*, Admissions Adviser

Diane E. Mulcahy, M.S., *University of California*, Nurse Practitioner

Rahsanica M. Mulkey, Research Assistant

Lisa Coté Mullen, M.S., *Buffalo State College*, Senior Staff Assistant, Graduate Studies and Research

Michael P. Murphy, Assistant SID

Robert M. Murphy, Computer Systems Technician

Tim G. Ngo, B.S., *Buffalo State College*, Staff Assistant

Michael B. Notarius, B.S., *Buffalo State College*, SUNY Information Technology Exchange Center Assistant Director

Thomas Ochs, Assistant Production Manager, Rockwell Hall

Linda J. O'Donnell, M.S.Ed., *University at Buffalo*, Faculty/Staff Wellness Coordinator, Health and Wellness Department

Robert R. Orange, M.A., *Buffalo State College*, Career Development Center Assistant Director

William Ortega, M.S., *Buffalo State College*, EOP Counselor

Neilhall J. Palmer, B.S., *Buffalo State College*, Network Support Programmer

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## INDEX

### A

Academic advisement .....38

Academic advising, uncommitted students .....13

Academic Appeals Committee petition .....49

Academic calendar .....39

Academic clemency .....17, 43

Academic complaint and grievance procedures .....49

Academic dismissal .....43

Academic dismissal, readmission after .....17

Academic eligibility for financial aid .....44

Academic levels, definition of .....45

Academic minors .....59

Academic misconduct .....44

Academic organization .....52

Academic policies .....38

Academic probation .....43

Academic progress, satisfactory .....44

Academic record, transcript of .....47

Academic regulations, waiver of .....49

Academic Skills Center .....8

Academic Standards Office .....38

Academic standing .....43

Academic transcript fee .....21

Acceptable behavior, statement of .....33

Accreditation .....2, 4, 6

Activity fee refund policy .....21

Activity fee, semester rate .....19

Activity fee, summer rate .....20

Admission procedures .....17

Admission, early .....16

Admission, international students .....16

Admission, joint admission with community colleges .....15

Admission, special (STAR) .....14

Admission, special departmental requirements .....16

Admission, transfer .....15

Admissions .....14

Advanced placement examinations .....45

Advisement coding system .....57

African and African-American Studies Interdisciplinary Unit, description of .....10

African and African-American studies, courses in .....105

Alcohol and Other Drug (AOD) Education Program .....34

All College Honors Program .....43

Alternate methods of earning credit .....45

Amsterdam (Netherlands), international education program .....11

Anthropology, courses in .....106

Anthropology, program description and requirements .....65

Appeals, student .....49

Application for admission .....14

Application for financial aid .....23

Applied Science and Education, Faculty of .....52

Aquatic biology, research in .....13

Archives/Special Collections, library .....6

Art education (K-12), program description and requirements .....65

Art education, courses in .....107

Art history, program description and requirements .....66

Art, program description and requirements .....65

Arts and Humanities, Faculty of .....52

Arts, The, program description and requirements .....67

Athletic fee .....19

Athletic fee refund policy .....21

Athletics, intercollegiate .....4, 34

Attendance .....39

Audit/advisement system .....38

Auditing courses .....39

Australia, international education programs .....10

Average course load .....38

B

Bachelor of Arts degree, general education requirements .....53

Bachelor of Fine Arts degree, general education requirements .....59

Bachelor of Science degree, general education requirements .....53

Bachelor of Technology degree, general education requirements .....59

Basic mathematics competency requirement .....57

Basketball .....34

Bengal Express Cart Service .....33

Biology education (7-12), program description and requirements .....67

Biology, courses in .....108

Biology, program description and requirements .....67

Board refund policy .....21

Bookstore .....31

Bowling .....34

Broadcasting, program description and requirements .....68

Budget, estimated .....20

Buffalo State Bookstore .....31

Buffalo, description of .....5

Burchfield-Penney Art Center .....6

Business and distributive education, program description and requirements .....68

Business education, program description and requirements .....69

Business studies, program description and requirements .....69

Business, courses in .....110

Butler Library (E.H. Butler Library) .....6

C

Calendar, academic .....39

Campbell Student Union .....31

Campus map .....184

Career Development Center .....32

Center for Studies in Creativity .....8

Changing a major .....40

Chemistry education (7-12), program description and requirements .....70

Chemistry, courses in .....112

Chemistry, program description and requirements .....69

Child Care Center .....32

Child of veteran award .....27

Classics, courses in .....134

Clemency, academic .....17, 43

College Catering Services .....33

College Dining Services .....33

College fee .....19

College fee refund policy .....21

Commencement .....41

Communication, courses in .....113

Communication, program description and requirements .....70

Commuter dining card .....34

Commuter locker room .....34

Commuter services .....34

Competency requirement, mathematics .....57

Complaints, student .....49

Computer information systems, courses in .....114

Computer information systems, program description and requirements .....71

Computing Services Office .....7

Continuing education .....12

Contract, earning credit with a .....45

Cooperative Education .....9

Costs, estimated .....20

Counseling Center .....32

Course challenge, earning credit with .....45

Course coding system, general education requirements .....57

Course listings .....103

Creative Studies Collection, library .....9

Creative studies, courses in .....115

Creativity, Center for Studies in .....8

Credit by evaluation .....47

Credit for experiential learning .....12

Credit for internship .....46

Credit for military service .....46

Credit for project .....46

Credit for topic courses .....46

Credit, alternate methods of earning .....45

Credit, evaluation of transfer credit .....49

Credit, unit of .....48

Criminal justice, courses in .....116

Criminal justice, program description and requirements .....71

Cross country (varsity competition) .....34

Cross registration .....46

Culture to Culture Coalition .....35

Curriculum Lab, library .....6

D

Dance, courses in .....117

Dean of Students .....33

Dean of Students, grievances .....49

Dean's Honors List .....43

Declaring a major .....40

Declaring a major and financial aid eligibility .....45

Dental Clinic .....34

Department requirement (major) .....57

Design (B.E.A.), program description and requirements .....72

Design (B.S.), program description and requirements .....73

Design, courses in .....118

Dietetics: Coordinated Program, program description and requirements .....74

Dietetics: Didactic Program, program description and requirements .....75

Dining and food service .....33

Directory information and Family Education Rights and Privacy Act .....51

Disabilities, financial aid for students with .....28

Disabilities, support services for students with .....8, 36

Discrimination, student complaints regarding .....49

Dismissal, academic .....43

Distinguished Service Professors .....174

Distinguished Teaching Professors .....174

Distributive and business education, courses in .....121

Diversity requirement .....56

Diversity at Buffalo State .....4

Drop/add period .....38

Dropping from a course .....39

Dual certification (teacher) .....48

Dual degree .....40

Dual majors and minors, and general education requirement .....57

E

E.H. Butler Library .....6

Early admission .....16

Early decision (admission) .....14

Earth science education (7-12), program description and requirements .....76

Earth sciences, courses in .....121

Earth sciences, program description and requirements .....75

Economics (B.A.), program description and requirements .....77

Economics (B.S.), program description and requirements .....77

Economics and finance, courses in .....122

Educational foundations, courses in .....124

Educational Opportunity Program (EOP), admission to program .....16

Educational Opportunity Program .....9

Educational Opportunity Program, financial aid .....27

Electives, number required .....57

Electrical engineering technology, electronics, program description and requirements .....78

Electrical engineering technology, power and machines, program description and requirements .....78

Elementary education (pre-K-6), program description and requirements .....79

Elementary education majors, drugs, alcohol, tobacco, and child abuse identification instruction requirement .....48

Elementary education, courses in .....125

Eligibility for financial aid .....23

Employment opportunities .....29, 32

Engineering technology, courses in .....165

England, international education program .....10

English as a second language .....8

English composition policy for international students .....57



English composition requirement	58
English education (7-12), program description and requirements	80
English, courses in	126
English, program description and requirements	79
Environmental Research and Education, Great Lakes Center for	7
EOP, financial aid	27
Equity and Campus Diversity Office, complaints regarding discrimination	49
Erie Community College, joint admission program with	15
Evaluation, credit by	47
Evening degree programs	11
Evening student assistance	11, 18
Evening Student Assistant Center	11
Evening study	11, 17
Exceptional education, courses in	129
Exceptional education, program description and requirements	81
Expenses	19
Experiential learning, credit for	12, 45
<b>F</b>	
Faculty of Applied Science and Education	52
Faculty of Arts and Humanities	52
Faculty of Natural and Social Sciences	52
Faculty, description of	4
Faculty, listing by department	174
Faculty-Student Association (FSA)	33
FAFSA	23
Family Education Rights and Privacy Act (FERPA) and directory information	51
Fashion and textile technology, courses in	130
Fashion and textile technology, program description and requirements	81
Federal financial aid programs	25
Federal Work Study Program	25
Fees	19
Fees, refund policy	21
Fees, service	21
Finances	19
Financial aid award notification	24
Financial aid disbursement	24
Financial aid overawards	24
Financial aid	22
Financial aid, academic eligibility for	44
Financial aid, eligibility for	23
Financial aid, federal programs	25
Financial aid, refunding, overpayments	24
Fine Arts Department, special admission requirements	16
Fine arts, courses in	131
Food service and dining	33
Football	34
Foreign language education, courses in	134
Foreign language requirement	58
Foreign language, courses in	133
Forensic chemistry, program description and requirements	82
Fraternities and sororities (Greek Affairs)	37
Free Application for Federal Student Aid (FAFSA)	23

French education (7-12), program description and requirements	83
French language and literature, program description and requirements	83
French, courses in	134
Freshman admission	14
<b>G</b>	
General education requirements, courses for	54
General education requirements for Bachelor of Science or Bachelor of Arts degrees	53
General Studies Degree Program	12
General Studies Interdisciplinary Unit, description of	10
General studies, courses in	137
General studies, program description and requirements	83
Genesee Community College, joint admission program with	15
Geography, courses in	137
Geography, program description and requirements	84
German, courses in	135
Global issues requirement	56
Grade change	42
Grading	41
Graduate courses	45
Graduate Record Exam (GRE)	8
Graduate school, selection of	32
Graduation	41
Graduation rates	18
Great Lakes Center for Environmental Research and Education	7
Greek Affairs (Student Life)	37
Greek, courses in	135
Grievances, student	49
<b>H</b>	
Health and wellness, courses in	138
Health and wellness, program description and requirements	85
Health Center (Wiegel Health Center)	33
Health fee	19
Health fee refund policy	21
Health insurance	20, 34
History of the college	60
History, courses in	140
History, program description and requirements	85
Honors Convocation	43
Honors option	43
Honors options for programs, list of	61
Honors, courses in	144
Hospitality administration, program description and requirements	85
Housing (Residence Life Office)	35
Housing residency requirement	36
Humanities, courses in	144
Humanities, program description and requirements	86
<b>I</b>	
Ice hockey	34
IMHOTEP Society	35
Immunization requirements	33
Incomplete grade	41
Independent study	46

Industrial technology, courses in	166
Industrial technology, program description and requirements	86
Instructional Resources Center	10
Intercollegiate athletics	34
Interdisciplinary units	10
International education scholarships	30
International Education Office	10
International Student Affairs Office	34
International student health insurance	20
International students, admission for	16
International students, English composition policy	57
Internship (course number 488)	46
Internships	5, 32
Interstate teacher certification	48
Italian, courses in	135
Italy, international education program	10
<b>J</b>	
Job Location and Development Program	29
Joint Admission Program	15
Journalism, program description and requirements	87
<b>L</b>	
Laboratory service (health center)	34
Lacrosse	34
Late drop/add fee	21
Late payment fee	21
Late registration fee	21
Latin, courses in	136
Leadership Education and Development Center	34
Leadership Education, Service Learning, and Commuter Services Office	34
Leave of absence	40
Library, courses in	145
Library, E.H. Butler	6
Lifelong Learning Center	11
<b>M</b>	
Major, change of	40
Major, declaration of	40
Map of campus	184
Mathematics (B.A.), program description and requirements	87
Mathematics (B.S.), program description and requirements	88
Mathematics education (7-12), program description and requirements	88
Mathematics, basic competency requirement	57
Mathematics, courses in	145
Meal debit card (SUNYCard)	37
Meal program	33
Mechanical engineering technology, program description and requirements	89
Media services, library	6
Middle States Association of Colleges and Schools	2, 4
Military service, credit for	46
Minority Student Services Office	35
Minors, academic	59
Minors, list of	61

Misconduct, academic	44
Monroe Community College, joint admission program with	15
Moore Complex (housing)	36
Music, courses in	147
Music, program description and requirements	89
<b>N</b>	
National Council for Accreditation of Teacher Education	2, 6
National Student Exchange Program	12
Native American Student Services	35
Native Americans, financial aid for	27, 28
Natural and Social Sciences, Faculty of	52
Netherlands (Amsterdam), international education program	11
New Student Programs and Academic Advisement Office	35, 38
New Student Seminar Program	35
New York State Aid for Part-time Study (APTS)	28
New York State debt collection mandate	21
New York State financial aid programs	27
New York State teacher certification	47
New York State Teacher Certification Exam	8
NIA Mentor Program	35
Niagara County Community College, joint admission program with	15
Noncredit courses (continuing education)	12
Nondegree status	17
Nontraditional students	4
Nutrition, Hospitality, and Fashion, courses in	149
<b>O</b>	
Off-campus housing listings	34
Off-campus study	46
On-line catalog (SHERLOCK)	6
Operation Identification Program (University Police)	37
Orientation for new students	35
<b>P</b>	
Painting, program description and requirements	90
Parent Loan for Undergraduate Students (PLUS)	26
Parent Loan for Undergraduate Students (PLUS), application for	24
Parking fee	20
Parking fee refund policy	21
Parking rules and regulations	37
Part-time study, New York State Aid for	28
Pass-fail grade option	42
Payment plan (time payments)	20
Peer Mentor Program	35
Pell Grant	25
Pell Grant, academic eligibility	44
Pell Grant, application for	23
Pell Grant, disbursement for	24
Performing Arts Center	7
Performing arts, courses in	151
Perkins Loan	25
Perkins Loan, disbursement for	24

Pharmacy (campus pharmacy)	34
Philosophy and religious studies, courses in	151
Philosophy, program description and requirements	90
Photo identification card (SUNYCard)	37
Photography, program description and requirements	91
Physical education requirement	58
Physics (B.A.), program description and requirements	91
Physics (B.S.), program description and requirements	91
Physics education (7-12), program description and requirements	92
Physics, courses in	153
Planetarium, Whitworth Ferguson	7
PLUS loans	24, 26
Political science, courses in	154
Political science, program description and requirements	92
Pre-health professions advisement	12
Pre-law advisement	12
Printmaking, program description and requirements	93
Probation, academic	43
Professional core, secondary education	48
Professional training and development services	12
Programs, undergraduate, list of	61
Project (course number 495)	46
Psychological services (Counseling Center)	32
Psychology (B.A.), program description and requirements	94
Psychology (B.S.), program description and requirements	94
Psychology, courses in	156
Public communication, program description and requirements	95
Puerto Rico, international education program	11
<b>Q</b>	
Quality studies, courses in	167
Quebec, international education program	11
<b>R</b>	
Readmission	17, 43
Recreation and sports	4, 34
Reference Services, library	6
Refund policies	21
Registration procedures	38
Religious beliefs and class attendance	51
Repeating a course	42
Requirements for Bachelor of Fine Arts degree	59
Requirements for Bachelor of Technology degree	59
Research in aquatic biology	13
Residence Life Office (housing)	35
Residency requirement, housing	36
Restaurant, The	33

Returned check fee	21
Rockwell Hall Auditorium	7
Room and board, semester rate	19
Room charge refund policy	21
Room, summer rate	20
ROTC	13
Rugby	34
<b>S</b>	
Safety studies, courses in	167
Satisfactory academic progress	44
Scholarships	29
Science Education, courses in	159
Sculpture, program description and requirements	95
Second major	40
Secondary Education Interdisciplinary Unit	10
Secondary education professional core	48
Self-supporting, definition for financial aid	24
SEOG	25
SEOG, academic eligibility	44
Service fees	21
Service Learning Volunteer Center	34
Services, student	31
SHERLOCK	6
Siena Program, international education program	10
Soccer	34
Social studies education (7-12, 5-6 Extension), program description and requirements	96
Social studies education, courses in	160
Social work, courses in	161
Social work, program description and requirements	96
Sociology (B.A.), program description and requirements	97
Sociology (B.S.), program description and requirements	97
Sociology, courses in	162
Softball	34
Sororities and fraternities (Greek Affairs)	37
Spain, international education program	11
Spanish education (7-12), program description and requirements	98
Spanish language and literature, program description and requirements	98
Spanish, courses in	136
Special departmental admission requirements	16
Special Programs Office, National Student Exchange	12
Special Programs Office, Visiting Student Program	13
Speech language pathology, courses in	164
Speech language pathology, program description and requirements	98
Speech-Language Hearing Clinic	36
Sports and recreation, intercollegiate athletics	4, 34

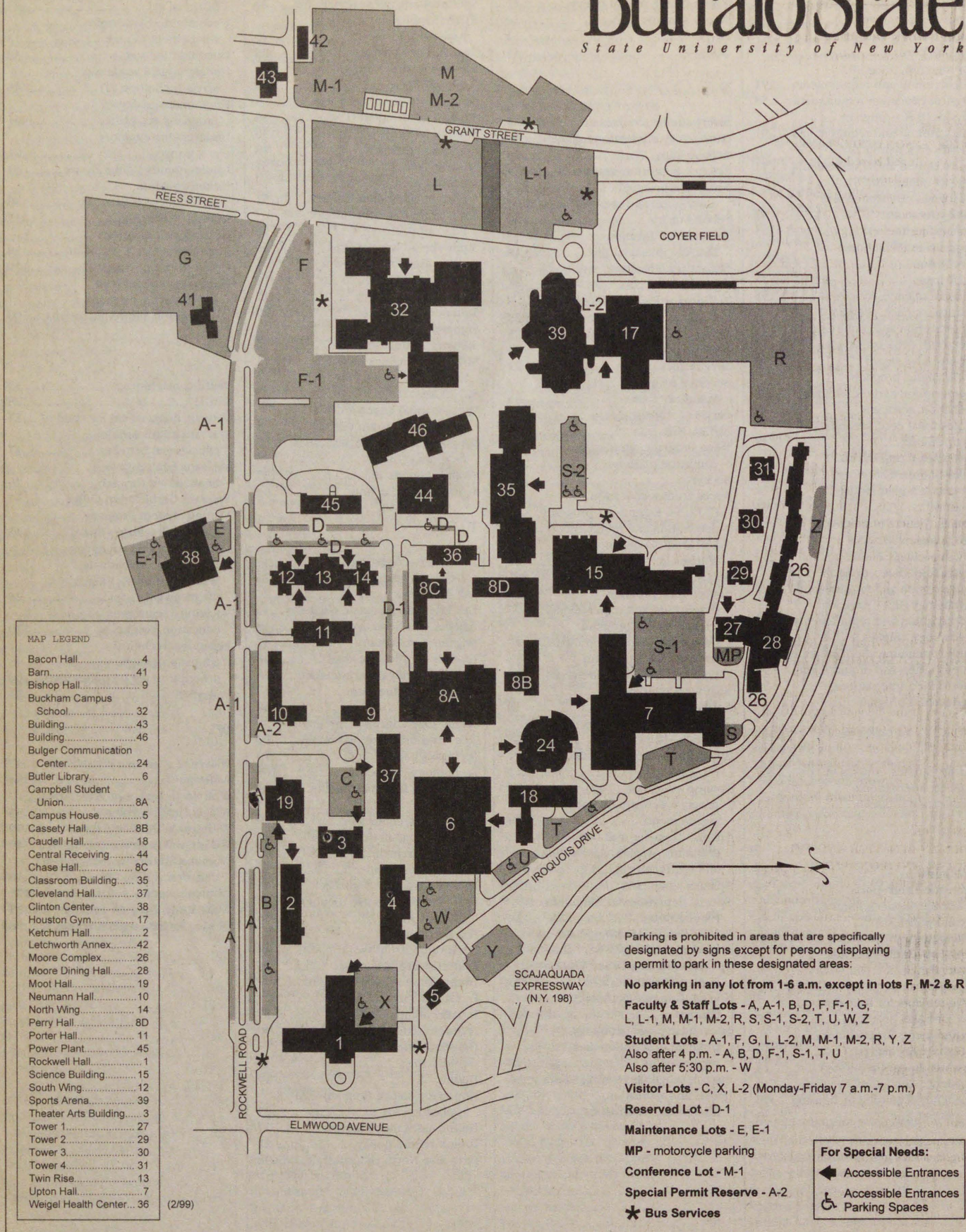
Stafford Loan	26
Stafford Loan, academic eligibility	44
Stafford Loan, application for	24
Stafford Loan, disbursement for	24
STAP (Supplemental Tuition Assistance Program)	28
State Aid to Native Americans	28
State Education Department, complaints to	51
State University of New York	6
Student government (USG)	36
Student Life Office	36
Student retention	18
Student services	31
Student Union (Campbell Student Union)	31
Study abroad (International Education)	10
Study-abroad scholarships	30
Success Track for Academic Readiness (STAR)	14
Summer session	17
Summer, activity fee	20
Summer, room rate	20
Summer, tuition	20
SUNY Chancellor's Award for Excellence in Teaching	4
SUNYCard	33, 37
Supplemental Educational Opportunity Grant (SEOG)	25
Supplemental Tuition Assistance Program (STAP)	28
Swahili, courses in	137
Swimming and diving	34
<b>T</b>	
TAP (Tuition Assistance Program), application for	23
TAP Program	27
TAP Program, academic eligibility	44
Teacher certification exam	48
Teacher certification	47
Teacher certification, dual	48
Teacher certification, interstate	48
Technology education, courses in	168
Technology Education, program description and requirements	99
Technology fee	19
Technology, courses in	165
Technology fee refund policy	21
Tennis	34
Theater arts, courses in	168
Theater, program description and requirements	99
Time payment plan	20
Title IV academic eligibility	44
Topic courses (course numbers 189 and 389)	46
Towers (housing)	36
Track (indoor/outdoor)	34
Transcript fee, academic	21
Transcript of academic record	47
Transcript, financial aid	21
Transfer admission	15
Transfer credit, off-campus study	46
Transfer students, evaluation of credits for	49
Tuition	19
Tuition Assistance Program (TAP), application for	23
Tuition Assistance Program	27
Tuition refund policy	21
Twin Rise North (housing)	36

<b>U</b>	
U.S. Bureau of Indian Affairs, financial aid	27
Uncommitted Academic Advisement Center	13
Uncommitted status	38
Undergraduate academic levels (definition of)	45
Undergraduate degree programs at a glance	61
Undergraduate minors at a glance	61
Undergrounds Coffee House	33
United Students Government (USG)	36
University Police	37
Upper-division course requirement	58
Urban planning, courses in	170
Urban-regional analysis and planning, program description and requirements	100
<b>V</b>	
Vending machines	33
VESID	28
Veteran, financial aid for child of	27
Veterans Administration, educational benefits	37
Veterans Administration, financial aid through	26
Veterans Certification Office	37
Visiting Student Program (Special Programs Office)	13
Vocational and Educational Services for Individuals With Disabilities (VESID), financial aid	28
Vocational technical education, courses in	170
Vocational technical education, program description and requirements	100
Volleyball	34
<b>W</b>	
Waiver of academic regulations	49
Water polo	34
Whitworth Ferguson Planetarium	7
Wiegel Health Center	33
Withdrawal from courses	40
Withdrawal from the college	40
Women's Studies Interdisciplinary Unit, description of	10
Women's studies, courses in	171
Work Study Program, Federal	25
Writing intensive requirement	58



# Buffalo State

State University of New York



## FOR YOUR INFORMATION

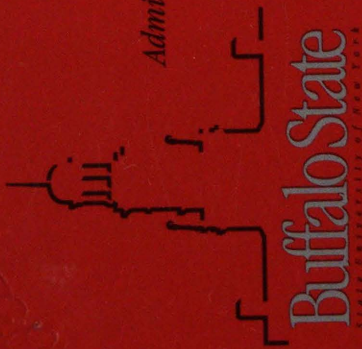
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Academic Skills Center	(716) 878-4041
Admissions Office	(716) 878-4017
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Evening Student Assistance Center <i>Lifelong Learning Center</i>	(716) 878-5906
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Great Lakes Center for Environmental Research and Education	(716) 878-4329
Health Center (Weigel Health Center)	(716) 878-6711
Honors Program	(716) 878-5713
Intercollegiate Athletics	(716) 878-6533
International Education	(716) 878-4620
International Student Affairs	(716) 878-5331
Leadership Education, Service Learning, and Commuter Services	(716) 878-5533
Library (Butler Library)	(716) 878-6313
Lifelong Learning Center <i>Continuing education</i>	(716) 878-5906
Minority Student Services	(716) 878-4631
Native American Student Services	(716) 878-4631
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Performing Arts Center	(716) 878-3032
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Residence Life Office	(716) 878-3000
Student Accounts	(716) 878-4121 or 4301
Student Affairs Office	(716) 878-4704
Summer Session Admission	(716) 878-4017
Summer Session Registration	(716) 878-4905
University Police	(716) 878-6333 or 6334

## Academic Departments and Programs

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History and Social Studies Education Department.....	(716) 878-5412
Humanities Program.....	(716) 878-4439
Mathematics Department.....	(716) 878-5621
Nutrition, Hospitality, and Fashion Department.....	(716) 878-5913
Performing Arts Department.....	(716) 878-6401
Philosophy and Religious Studies Department.....	(716) 878-5136
Physics Department.....	(716) 878-6731
Political Science Department.....	(716) 878-6116
Psychology Department.....	(716) 878-6215
Social Work Department.....	(716) 878-5705
Sociology Department.....	(716) 878-5411
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