

J FOX

CENTRAL
CONNECTICUT
STATE
UNIVERSITY



NEW BRITAIN
1849

UNDERGRADUATE
CATALOG

1993-1995

A CAMPUS OF THE
CONNECTICUT STATE UNIVERSITY
SYSTEM

NEW BRITAIN, CONNECTICUT

CONNECTICUT STATE UNIVERSITY

Central Connecticut State University • New Britain
Eastern Connecticut State University • Willimantic

Southern Connecticut State University • New Haven
Western Connecticut State University • Danbury

Connecticut State University reaches throughout the state with major campuses in four metropolitan centers: Central Connecticut State University in New Britain, Eastern Connecticut State University in Willimantic, Southern Connecticut State University in New Haven, and Western Connecticut State University in Danbury. It enrolls more than 36,000 students who are taught by approximately 1,100 full-time faculty members and hundreds of part-time instructors.

Origins of Connecticut State University date back to 1849, with the founding of a school for teachers in New Britain. During their distinguished history, the campuses have evolved from normal schools to teachers colleges to multi-purpose state colleges and, finally, to universities. Today, after 143 years of growth and development, the four campuses of Connecticut State University are thoroughly diversified institutions. Among their alumni are physicians, teachers, lawyers, dentists, nurses, clergy, business people, journalists, scholars, librarians, artists, and a host of other professionals. The graduates of the campuses of Connecticut State University contribute to all aspects of Connecticut's economic, social, and cultural life.

The governance of Connecticut State University is the responsibility of a 16-member Board of Trustees. Fourteen of the Trustees are appointed by the governor, and two are students elected to the Board by their classmates. The president of Connecticut State University is responsible for the administration of the system. Each campus operates with a considerable measure of autonomy and functions under the leadership of a president.

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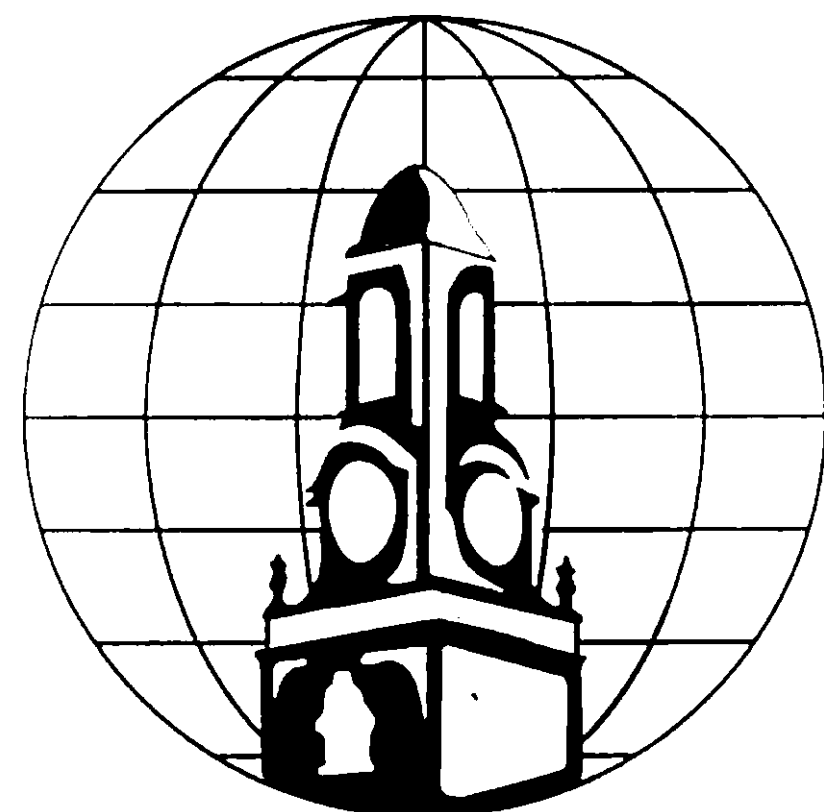
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CONNECTICUT
STATE
UNIVERSITY



NEW BRITAIN
1849

CENTRAL CONNECTICUT STATE UNIVERSITY

New Britain, Connecticut 06050

Undergraduate Catalog 1993-95

*A Campus of the Connecticut State University System
Board of Governors for Higher Education*

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New Britain, CT 06050-4010

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ACCREDITATION AND MEMBERSHIPS

The University is accredited by the New England Association of Schools and Colleges and the Connecticut State Department of Higher Education, and the Connecticut Department of Education (certification programs in education). In addition, programs in chemistry are accredited by the American Chemical Society. The Construction Engineering Technology and the Manufacturing Engineering Technology programs are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology. The Industrial Technology programs are accredited by the National Association of Industrial Technology. The Computer Science program is accredited by the Computer Science Accreditation Board. The Bachelor of Science in Nursing program is accredited by the National League for Nursing.

The University is a member of the American Assembly of Collegiate Schools of Business, the American Council on Education, the American Association of Colleges for Teacher Education, the American Association of State Colleges and Universities, the College Board, the Connecticut Council on Higher Education, the Council for Advancement and Support of Education, the National Commission for Cooperative Education, and many other professional organizations related to the activities of individual departments at Central Connecticut State University.

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UNIVERSITY CALENDAR 1993-96

Fall Semester 1993

August 23	Academic Year begins
August 26-27	Faculty Meetings, Orientation
August 27	Last day to withdraw with 100% refund
August 30	Classes begin 8 a.m.
August 30, 31	Drop/Add period
September 1, 2	
September 3	Last day to declare Pass/Fail or Audit options
September 6	Labor Day Holiday
September 10	Last to withdraw with 60% refund
September 22	Last day to drop first eight-week courses
September 24	Last-day to withdraw with 40% refund
October 18	Midterm: Last day to drop full-semester courses; First eight-week courses end
October 19	Second Eight-week courses begin
October 25, 26	Reading Days
November 1	Final date for undergraduates to apply for May or August 1994 graduation; Office of the Registrar
November 12	Last day to drop a second eight-week course
November 23	Thanksgiving Recess begins 10 p.m.
November 29	Thanksgiving Recess ends 8 a.m.
December 11	Commencement (Undergraduate)
December 13	Day classes end
December 14	Reading Day
December 15-21	Examinations
December 18	Final examination/last class meeting for Saturday classes

Wintersession 1994

January 3	Wintersession classes begin
January 17	Martin Luther King Day Holiday
January 20	Wintersession classes end

Spring Semester 1994

January 12	Academic Semester begins
January 21	Last day to withdraw with 100% refund
January 24	Classes begin 8 a.m.
January 24-27	Drop/add period
January 28	Last day to declare Pass/Fail or Audit options
February 4	Last day to withdraw with 60% refund
February 16	Last day to drop first eight-week courses
February 18	Lincoln's Birthday Holiday
February 21	Washington's Birthday Holiday
February 22	Last day to withdraw with 40% refund
March 1	Final Date for graduate students to apply for May 1994 degrees; Graduate School
March 15	Mid-term: Last day to drop full-semester courses; First eight-week courses end
March 16	Second eight-week courses begin
March 19	Spring Recess begins 1:30 p.m.
March 28	Spring Recess ends 8 a.m..
April 1	Holiday
April 13	Last day to drop second eight-week courses

May 1	Final day for undergraduates to apply for December 1994 graduation; Office of the Registrar
May 11	Day classes end
May 12, 13	Reading Days
May 16-20	Examinations
May 21	Final examination/last class meeting for Saturday classes
May 26	Graduate Commencement
May 27	Undergraduate Commencement

Summer Session 1994

May 31	First five-week session begins
May 31	Eight-week session begins
June 30	First five-week session ends
July 4	Independence Day Holiday
July 5	Second five-week session begins
July 21	Eight-week session ends
August 4	Second five-week session ends

Fall Semester 1994

August 22	Academic Year begins
August 25-26	Faculty Meetings, Orientation
August 26	Last day to withdraw with 100% refund
August 29	Classes begin 8 a.m.
August 29-31	Drop/Add period
September 1	
September 2	Last day to declare Pass/Fail or Audit options
September 5	Labor Day Holiday
September 9	Last to withdraw with 60% refund
September 22	Last day to drop first eight-week courses
September 23	Last-day to withdraw with 40% refund
October 14-17	Reading Days
October 19	Midterm: Last day to drop full-semester courses; First eight-week courses end
October 20	Second Eight-week courses begin
November 1	Final date for undergraduates to apply for May or August 1995 graduation; Office of the Registrar
November 11	Last day to drop a second eight-week course
November 22	Thanksgiving Recess begins 10 p.m.
November 28	Thanksgiving Recess ends 8 a.m.
December 10	Commencement (Undergraduate)
December 12	Day classes end
December 13	Reading Day
December 14-20	Examinations
December 17	Final examination/last class meeting for Saturday classes

Wintersession 1995

January 2	Wintersession classes begin
January 16	Martin Luther King Day Holiday
January 19	Wintersession classes end

Spring Semester 1995

January 17	Academic Semester begins
January 20	Last day to withdraw with 100% refund
January 23	Classes begin 8 a.m.
January 23-26	Drop/add period
January 27	Last day to declare Pass/Fail or Audit options
February 3	Last day to withdraw with 60% refund
February 14	Last day to drop first eight-week courses
February 17	Lincoln's Birthday Holiday
February 20	Washington's Birthday Holiday
February 21	Last day to withdraw with 40% refund
March 1	Final Date for graduate students to apply for May 1994 degrees; Graduate School
March 14	Mid-term: Last day to drop full-semester courses; First eight-week courses end
March 15	Second eight-week courses begin
March 18	Spring Recess begins 1:30 p.m.
March 27	Spring Recess ends 8 a.m.
April 13	Last day to drop second eight-week courses
April 14	Holiday
May 1	Final day for undergraduates to apply for December 1995 graduation; Office of the Registrar
May 10	Day classes end
May 11, 12	Reading Days
May 15-19	Examinations
May 20	Final examination/last class meeting for Saturday classes
May 25	Graduate Commencement
May 26-27	Undergraduate Commencement

Summer Session 1995

May 30	First five-week session begins
May 30	Eight-week session begins
June 29	First five-week session ends
July 3	Second five-week session begins
July 4	Independence Day Holiday
July 20	Eight-week session ends
August 3	Second five-week session ends

Fall Semester 1995

August 28	Academic Year begins
August 31-September 1	Faculty Meetings, Orientation
September 1	Last day to withdraw with 100% refund
September 4	Labor Day Holiday
September 5	Classes begin 8 a.m.
September 5-8	Drop/Add period
September 11	Last day to declare Pass/Fail or Audit options
September 15/19	Last day to withdraw with 60% refund WRONG
September 27	Last day to drop first eight-week courses
OCT. 3 September 29	Last-day to withdraw with 40% refund WRONG
October 20	Reading Day
October 24	Midterm: Last day to drop full-semester courses; First eight-week courses end
October 25	Second eight-week courses begin

November 1	Final date for undergraduates to apply for May or August 1996 graduation; Office of the Registrar
November 16	Last day to drop a second eight-week course
November 21	Thanksgiving Recess begins 10 p.m.
November 27	Thanksgiving Recess ends 8 a.m.
December 9	Commencement (Undergraduate)
December 15	Day classes end
December 16	Final examination/last class meeting for Saturday classes
December 18-22	Examinations

Wintersession 1996

January 2	Wintersession classes begin
January 15	Martin Luther King Day Holiday
January 19	Wintersession classes end

Spring Semester 1996

January 16	Academic Semester begins
January 19	Last day to withdraw with 100% refund
January 22	Classes begin 8 a.m.
January 22-25	Drop/add period
January 26	Last day to declare Pass/Fail or Audit options
February 2/5	Last day to withdraw with 60% refund
February 13	Last day to drop first eight-week courses
February 16	Lincoln's Birthday Holiday
February 19	Washington's Birthday Holiday
February 20	Last day to withdraw with 40% refund
March 1	Final Date for graduate students to apply for May 1996 degrees; Graduate School
March 12	Mid-term: Last day to drop full-semester courses; First eight-week courses end
March 13	Second eight-week courses begin
March 16	Spring Recess begins 1:30 p.m.
March 25	Spring Recess ends 8 a.m.
April 5	Holiday
April 12	Last day to drop second eight-week courses
May 1	Final day for undergraduates to apply for December 1996 graduation; Office of the Registrar
May 8	Day classes end
May 9, 10	Reading Days
May 13-17	Examinations
May 18	Final examination/last class meeting for Saturday classes
May 23	Graduate Commencement
May 24	Undergraduate Commencement

Summer Session 1996

May 28	First five-week session begins
May 28	Eight-week session begins
June 27	First five-week session ends
July 1	Second five-week session begins
July 4	Independence Day Holiday
July 18	Eight-week session ends
August 1	Second five-week session ends

NOTES

GENERAL INFORMATION

The University

Central Connecticut State University is a metropolitan, comprehensive, public University dedicated to learning in the liberal arts and sciences and to education for the professions. The University provides access to academic programs of high quality for all citizens of Connecticut. It also serves as a responsive and creative intellectual resource for the people and institutions of our state's dynamic capital region.

The University was established as the New Britain Normal School. Founded in 1849 to train teachers for the "common schools," the New Britain Normal School graduated its first class in 1850.

The 29-building, 152-acre suburban campus is located in New Britain, close to Connecticut's capital city of Hartford. The University enrolls nearly 7,000 full-time students and an additional 7,000 part-time students through its School of Business, School of Technology, School of Arts and Sciences, School of Education and Professional Studies, School of Graduate Studies and College of Continuing Education. About 3,000 graduate students attend Central Connecticut each semester, nearly 400 of whom are full-time.

Initially located in downtown New Britain, the school moved to its present campus in 1922. In 1933 the three-year Normal School became the Teachers College of Connecticut, authorized to grant a four-year baccalaureate degree. In 1959 the name was changed to Central Connecticut State College; in 1983 to Central Connecticut State University.

More than 75 programs are offered leading to the bachelor of arts, bachelor of fine arts, bachelor of science, master of science in organization and management, master of science, and master of arts degrees and the sixth-year certificate.

The University's curriculum blends an academically rich general education program with diverse opportunities for specialized and advanced study in the arts and sciences and in several strong and rapidly developing professional programs. The dynamic balance between liberal and professional education is intended to enable students to develop the knowledge and competency necessary for continual growth and to acquire the skills, breadth and openness needed for independent learning in a world of rapid change and increasing challenge.

The mission of Central Connecticut State University is to provide an accessible university education of substance and quality. Academic programs offer the breadth and depth of knowledge necessary to assure the graduates skills for productive careers and continuing personal growth.

The faculty of the University seeks to provide graduates with the underlying love of learning which will prepare them for the inevitable day-to-day challenges of career and personal life and for the larger challenge of living a meaningful life.

Beyond its role as an educator helping individuals fulfill their potential, the University serves as a hub of intellectual activity and expertise for the people and institutions of Connecticut's complex and dynamic capital region. Outreach at home and abroad and service to the community are among the University's special responsibilities.

The University is committed to the pursuit of knowledge by its students, undergraduate and graduate, and is dedicated to quality in instruction, in research and in the preparation of its students.

The University is accredited by the New England Association of Schools and Colleges (NEASC). In addition, Chemistry programs are accredited by the American Chemical Society, the Computer Science program by the Computer Science Accreditation Board and the Bachelor of Science in Nursing program by the National League for Nursing. The Construction Engineering Technology and the Manufacturing Engineering Technology programs are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC/ABET). The Industrial Technology programs are accredited by the National Association for Industrial Technology (NAIT).

John W. Shumaker, a classics scholar and leader in public service and international initiatives, is the tenth chief executive of the institution.

Affirmative Action Policy

Central Connecticut is committed to a policy of non-discrimination and equal opportunity for all persons regardless of race, color, religion, sex, sexual orientation, age, national origin, marital or veteran status, or physical or mental handicap.

This policy is applicable to all employment practices, admission of students, programs and services to students, faculty, staff and the community.

Central Connecticut State's affirmative action policy seeks to include minorities, women, veterans and the handicapped in its educational programs and in all job groups of its work force.

The University Affirmative Action Office is within the Registrar's Office Complex, Davidson Hall 115, 827-7495.

Facilities

Central Connecticut State University is situated approximately two hours in driving time from Boston, New York City and southern Vermont. The campus, just 15 minutes from downtown Hartford, can be reached from state Routes 9, 71, 72 and 175, and Interstates 84 and 91. It is approximately 25 miles south of Bradley International Airport which serves Hartford and Springfield, Massachusetts.

Service Buildings

Davidson Hall (1922), the oldest structure on campus, is a Georgian-style building with a columned front and a distinctive clocktower. Once housing the entire institution, it now contains administrative offices including President's and Vice Presidents', Student Affairs, Registrar, Financial Aid, University Bursar, Admissions, the Business Office, the Personnel Office, Ombudsman, Veterans Affairs, Affirmative Action and the School of Graduate Studies. Also located in Davidson Hall are the Modern Languages Department, the University Theatre and several classrooms.

Marcus White Hall (1923), the second-oldest building and originally a women's dormitory, is named for the seventh principal of the New Britain Normal School. It now houses faculty and administrative offices. The University Health Center, the Microcomputer Laboratory and the Department of Communication are located in the adjacent **Marcus White Hall Annex** which was built in 1938.

Elihu Burritt Library (1972), named for New Britain's "Learned Blacksmith" and advocate of international peace, holds over 400,000 volumes, subscribes to close to 3,000 periodical titles and seats 1,800. Its extensive microfiche and microfilm collections provide access to periodicals, newspapers, ERIC documents, corporate annual reports and specialized research collections. The Library serves as a partial federal documents depository and houses a 7,000-volume Polish Heritage Collection, a rare book collection of 15,500 volumes and an extensive curriculum laboratory. Access to research materials is facilitated through on-line database searching, CD-ROM, NELINET and OCLC.

Memorial Hall (1970), with a capacity of 1,400, is among the largest dining facilities on the East Coast. Meals are served cafeteria style to students on the meal plan. The first floor contains facilities for banquets, meetings and faculty dining. Educational Support Services is also located here.

The **Student Center** (1964), a meeting place for the campus community, offers a variety of formal and informal programs. There are lounges and TV rooms, a game

room, a ballroom, meeting rooms, and special facilities for photography, radio and student publications. The University Bookstore, the Devil's Den, and Semesters are popular facilities. The **University Bookstore** carries books, school supplies, cosmetics, stationery, college gifts and apparel, and a photography service.

James J. Maloney Hall (1989), named for the nationally known thespian and University alumnus and professor, houses the Art and Theatre departments for instruction, performances and exhibitions. It accommodates programs in painting, sculpture, ceramics, and art education and space for new program initiatives. The **Samuel Shih-Tsai Chen Art Center**, named for the professor emeritus of political science and distinguished international scholar, presents exhibitions, lectures and programs of educational and community outreach. The Theatre Department facilities include one of the best-equipped, flexible experimental stages in the region.

Herbert D. Welte Hall (1963), honoring the chief executive of this institution for 39 years, contains an auditorium seating nearly 1,900 and the classrooms and offices of the Music Department.

Harrison J. Kaiser Hall (1965) was named for the institution's first athletic director. It houses the Physical Education and Athletics departments, the William H. Detrick Gymnasium seating 4,500 spectators, the Jack Suydam Natatorium, and special function rooms which include a modern Nautilus and free weight training facility. **Arute Field** is the site of home football and soccer games and track meets. Other sports facilities include a 37,000-sq. ft. recreational/athletic air-supported structure, tennis courts and fields for archery, softball, touch football, and recreation.

Classroom Buildings

Henry Barnard Hall (1953) is named for the champion of the common schools in the state and the nation and the first principal of the New Britain Normal School. Barnard Hall contains classrooms, the offices of the School of Education and Professional Studies, the Psychology Laboratory, and the Connecticut State University Board of Trustees' Executive Offices. The University Computer Center is also located in Barnard.

Maria Sanford Hall (1960) is named for the woman who, when appointed to the faculty of the Normal School in 1885, became the first woman college teacher in the United States. In addition to providing classrooms, Maria Sanford Hall houses the School of Business and the Department of Computer Science.

Frank J. DiLoreto Hall (1968), named for the late New Britain senator who avidly supported public education, is the Social Sciences building. In addition to classrooms, the building houses the departments of Geography, History, Political Science, Sociology and Anthropology.

Emma Hart Willard Hall (1953), named for the famous educator who was instrumental in the founding of the New Britain Normal School, houses both classrooms and offices. The third floor of Willard is the home of the English Department. The first floor houses the College of Continuing Education, Cooperative Education, the University Student Development Center, and the University Counseling Offices. The ground floor accommodates the Media Center.

Nicolaus Copernicus Hall (1974), the campus' technology and science building, is named for the famous Polish astronomer. It houses the departments of Biological Sciences, Chemistry and Physics/Earth Sciences and the School of Technology and their laboratories. The Copernican Planetarium and Space Science Center is also located in Copernicus Hall.

Residence Halls

There are eight undergraduate residence halls on campus; one is for men, two are for women, and five are coed.

Clarence Carroll Hall (1957) contains, with an annex, 104 rooms accommodating 208 men and women. **Mildred Barrows Hall** (1971) houses 236 women. **Seth North Hall** (1957) contains 62 student rooms for 120 men and women. **Catherine Beecher Hall** (1963) houses 130 men. **Samuel May Hall** (1963) houses 162 men and women. **Robert E. Sheridan Hall** (1967), a five-story residence hall, accommodates 226 women. **Thomas A. Gallaudet Hall** (1969) is a six-story residence hall for 270 men and women. **Robert Vance Hall** (1970) houses 396 men and women.

All residence halls have rooms for studying, reading and laundry facilities.

Special Centers

The University operates several special purpose facilities, institutes and centers as integral parts of its programs.

International Affairs Center

In recognition of the University's long-standing interest in international education, Central Connecticut State University was designated the Center for Excellence in International Affairs in 1986. The International Affairs Center in Burritt 101 conducts exchange programs for faculty and students, develops and manages international projects, and coordinates many of the University's various international initiatives. External funding has been obtained for a variety of programs to further the international identity of the University and increase the global awareness of the campus.

In March 1990, the CSU Board of Trustees asked the center to assume a broader coordinating role on behalf of all CSU institutions. Working with representatives from the four CSU campuses, the center now develops and conducts system-wide programs of student exchange and faculty development.

Institutes for European and American Studies and Asian and American Studies

In order to promote international understanding and cooperation and to provide additional foreign study opportunities for its students, Central Connecticut State and its sister Connecticut State University campuses have established institutes in Rastatt, Federal Republic of Germany and Atsugi, Japan. The institutes will promote educational opportunities in Connecticut, Europe, and Asia for courses, lectures, workshops, research, artistic activities, and conferences.

School of Arts and Sciences Centers

The **Capital Region Center for Economic Education** in Marcus White 103A is a non-profit educational organization dedicated to improving the general level of economic understanding. As part of the Joint Council on Economic Education, including 50 state councils and over 300 centers for economic education, the center sponsors a variety of programs for University students, elementary and secondary teachers, school administrators and members of the community.

The Center for Social Research (DiLoreto 200) performs applied social research for municipalities, non-profit organizations and community organizations within the central Connecticut region. The center offers students and faculty members the opportunity to apply their aca-

ademic experience to real-world environments through cooperative ventures with governmental and other non-profit or public interest institutions.

The **Center for Urban and Regional Planning** provides internships and part-time employment opportunities for students to work for a variety of town, regional, state and private planning agencies. Coordinated through the Department of Geography (DiLoreto 208), the center offers consulting services, workshops and short courses as part of its outreach program.

The **Connecticut Indian Information Service** in DiLoreto 110 is a clearinghouse for Native American-related events and issues. It provides opportunities for students to participate in creating channels of communication between Native American communities, educators and the general public.

Copernican Planetarium and Observatory, (Copernicus Hall) includes a planetarium and an observatory. The planetarium, a full-function optical planetarium seating 110 people, is used for classes and programs for the community. The observatory is located on the roof of Copernicus Hall and provides astronomical instruction for Physics/Earth Sciences classes. It supports student research in astronomical photography and observation using a modern 16-inch Cassegrain reflector and other telescopes.

The **Institute for Science Education** is coordinated by the Biology and Chemistry departments and offers a summer institute for middle, junior high and high school science teachers.

The **Intensive English Language Institute** (Willard 315-A) provides intensive instruction in the English language and American culture to international faculty and students, foreign professionals and members of the Connecticut community who are non-native speakers of English. In addition to intensive English courses, the IELI also offers TOEFL preparation courses and institutional TOEFL testing five times a year. The institute director is Dr. Janus Stygares.

The **Mathematics Center**, operated by the Department of Mathematical Sciences, provides counseling, tutorial assistance and diagnostic testing in mathematics for day and evening students. In particular, the tutorial service provides help for students in MATH 101 or MATH 125. Students are encouraged to drop in at the Math Center, southwest quad of Memorial Hall, for appointment scheduling or assistance.

Opened in June 1992, the **Multi-Media Language Learning Center** (Barnard 336) provides students with state-of-the-art technology for language study, practice and cultural enrichment. The lab is equipped with audio, film, video and laser disc technology as well as computers for interactive learning.

Polish Studies Center (DiLoreto 208-23) was established in an effort to foster within both the Polish American and the American communities an awareness of Poland's culture, history and civilization. Academically, the center offers courses in Polish history, politics, culture and civilization, language and the Polish community in America. The center's other facets include: the Polish Heritage Book Collection; the Connecticut Polish American Archive; the Annual Fiedorczyk Lecture in Polish American Studies and Milewski Polish Studies lecture; educational materials for teachers, movies and exhibits; and scholarship aid for students pursuing Polish Studies and for Polish American students.

The **Weather Center** is a fully functional weather forecasting facility, including a satellite downlink to the National Weather Service, computer data retrieval capability, color weather radar and satellite access. It supports forecasting for the University community as well as faculty and student research in the atmospheric sciences.

The **Writing Center** (Willard 305) helps students to improve their writing. Personnel diagnose writing skills and work on a one-to-one basis with students and others seeking to become more proficient writers. The center is open weekdays.

School of Business Centers

The **School of Business Entrepreneurial Support Center**, located in the New Britain Chamber of Commerce, operates in conjunction with the Chamber of Commerce and the Municipal Economic Development Agency. The center offers counseling support and business expertise to new and existing small businesses and provides a full spectrum of education and training activities for enterprise development. The center is staffed by a full-time director who utilizes business student interns and graduate assistants in the learning laboratory environment to assist in the delivery of the center's services. (229-8580)

The School of Business has a **Management and Professional Development Center** which sponsors not-for-credit offerings in business and industry. Detailed information may be obtained by contacting the Entrepreneurial Support Center (229-8580).

The **Institute for Business Studies** was established in 1991 to conduct research on international business and trade issues and to design and implement international management development programs. The Institute, in collaboration with Wroclaw Technical University, Wroclaw, Poland, is offering a program to introduce contemporary business principles and practices to faculty, students and alumni of Wroclaw Technical University.

School of Education and Professional Studies Centers

The **Center for Professional Development** is sponsored by the School of Education and Professional Studies. A center function is to provide in-service and CEUs for individual educators, groups of educators and school systems. Consulting and research services are available to improve the skills and knowledge of educational personnel as well as to help produce new or different capabilities as programs and job responsibilities at the local setting change.

The **Reading Clinic** (Barnard 234) provides a setting for reading teachers to help children develop reading skills. Faculty of the Department of Reading and Language Arts direct the operations of the clinic and supervise the activities of students working in the clinic.

The **Center for Multicultural and Urban Studies** offers continuing education units and institutes on various aspects of multicultural education to school districts, provides professional development for faculty, and supports research relating to multicultural education and institutional curricula change.

The **Connecticut Principals' Academy** was founded in 1985 to promote professional, intellectual, and personal growth experiences for principals in order to improve student learning. All principals and assistant principals in Connecticut are members of the Academy. The Academy supports the professional growth of principals through a variety of educational and professional offerings such as awareness conferences, long-term workshops, summer institutes, new principal orientation and mentor programs, and consulting services designed to meet specific concerns regarding building level leadership. In 1992, Central Connecticut State University received a two-year grant to manage and operate the Academy, which currently is housed in Barnard 309.

School of Technology Center

The **Center for Industrial and Engineering Technology** (CIET) is the outreach function of the School of Technology. Located in Copernicus 159, it is a continuing, self-supporting, non-profit resource designed to serve the needs of businesses and industrial firms. The center provides training workshops, consulting, technology transfer, networking among existing systems and a testing center for industrial and computer applications.

Student Development Center

The Student Development Center includes three essential services that are designed to help students utilize the extensive resources the University has to offer to make their academic programs work for them: Advising Information Services, Career Services and Cooperative

Education, and Educational Support Services. For detailed information, see the Student Development Center description on page 17 of this catalog.

Special Facilities

The **Information Systems Department** (Computer Center) provides computer learning facilities for day and evening students. The **Microcomputer Lab** in the Marcus White Annex is the main center for students to do their computer work on campus, providing numerous networked microcomputers as well as remote terminals (connected to the mainframe computer). There are additional terminals in Maria Sanford 110.

The **Macintosh Lab** in Henry Barnard Hall is another computer facility available to day and evening students. It provides a variety of Apple and Macintosh computers for general student and faculty use.

Students must complete mandatory training classes in the use of computers before being permitted access to the labs. Training classes are given at the beginning of every semester. Self-paced, computer-aided instruction is also available to supplement or substitute for the training classes.

All students can have access to the mainframe computer and are encouraged to request a computer account and attend the training. CCSU is also part of an international network of computers called Internet. This allows students with accounts on the mainframe to communicate with universities and research centers all over the world.

The **Media Center** coordinates all audio-visual and television services. The center maintains reference files on instructional materials, film rental sources, film producers and media equipment. Facilities for making instructional materials are available during scheduled times. Faculty and students (with the approval of a faculty member) may request AV/TV equipment for class use.

The **Ruthe Boyea Women's Center** (Marcus White Hall 103, 827-7411), named for its founding director, is a multi-purpose program and service center for students, staff and faculty. The center offers a variety of services for and about women including peer education, re-entry counseling, support groups, crisis intervention, programming and research on women's issues, and a luncheon series. The staff of the center also sponsors educational and cultural programs in response to the needs and interests of campus women. The center is open Monday through Friday and evenings as posted to serve students. For information, call 827-7411 or drop in. Both men and women are welcome.

ADMISSION

Hakim A. Salah-Din, *Director*

Michael Ansarra, *Assistant Director*

Charlotte Bisson, *Assistant Director*

Barbara R. Lukas, *Assistant Director*

Lawrence Hall, *Assistant to the Director*

(Phone 827-7543)

Admission to Central Connecticut State University may be offered to qualified graduates of accredited high schools or preparatory schools or to holders of an equivalency diploma, and to qualified transfer applicants.

Applications for fall admission may be submitted beginning in October of the senior year of high school. Fall semester candidates are encouraged to apply for admission by May 1, and spring candidates before November 1.

Applications from high school graduates, transfer and students formerly admitted to Central Connecticut State (but not currently attending) may be accepted for either semester.

All credentials submitted by an applicant become part of the student's University permanent record and are not returned.

A non-refundable fee of \$20 must accompany each application.

The application fee may be waived if a request is made by a recognized Talent Search or Upward Bound agency: Career Beginnings, College Board and Talent Search programs. All decisions on fee waivers are made by the Director of Admissions.

All correspondence and inquiries concerning undergraduate admission to the University should be addressed to the Office of Admissions.

Admissions Advising

The Office of Admissions is open from 8 a.m. - 4:30 p.m. Monday through Friday. Students and parents are encouraged to visit the campus for individual advising. It is best, however, to call or write two weeks in advance for an appointment. Several Admissions officers are available for consultation concerning educational plans at Central Connecticut State.

The Office of Admissions is in the southwest corner of Davidson Hall 115.

First-Year Students

An undergraduate application for admission may be obtained from most Connecticut high schools or from the Office of Admissions. High school students should submit the completed application form to their high school principal or guidance counselor. The principal or guidance counselor should then attach an official transcript of

the applicant's high school record-to-date with an estimate of the student's rank in the graduating class and submit the application to the Office of Admissions. First-year students are required to submit their scores from the Scholastic Aptitude Test (SAT).

Admission criteria include graduation from an approved secondary school with college preparatory work in the following areas:

- **English** (four years) — courses should emphasize writing skills as well as literature.
- **Mathematics** (three years) — desired sequence is Algebra I, Geometry and Algebra II. Students intending to take Calculus I at Central Connecticut State should take a fourth year of mathematics — trigonometry, analytical geometry or mathematical analysis.
- **Science** (two years) — courses should include at least one year of lab science.
- **Social Science** (two years) — courses should include one year of U.S. history.
- **Foreign Language** — three years are recommended.

Students whose preparation does not follow this pattern may still qualify for admission if there is other strong evidence that they are qualified for college studies. Students who present a high school equivalency diploma will also be considered for admission. G.E.D. scores should be submitted.

Admission to Central Connecticut State University is based on an applicant's secondary school record, including class rank, scores on the Scholastic Aptitude Test, and, if necessary, an interview with a representative of the Admissions Office. It is desirable that high school graduate applicants rank in the top half of their high school graduating class, obtain at least a 400 on the verbal portion and a 400 on the mathematics portion of the SAT, and present at least a C average mean of the five preparatory areas.

The Scholastic Aptitude Test

The Scholastic Aptitude Test (SAT) of the College Entrance Examination Board (CEEB) is required of all first-year student applicants. Applicants should request the CEEB to forward their SAT scores to the Office of Admissions. Details and an application for the test are available from the high school principal or guidance counselor or from Educational Testing Service, P.O. Box 6200, Princeton, NJ 08540-6200, phone (609) 771-7760. Central Connecticut State University's CEEB code is 3898. In special cases, the required submission of SAT scores may be waived at the discretion of the Director of Admissions (i.e., for applicants who graduated from high school several years before applying, veterans and other adult learners).

Advanced Placement

The University accepts for college credit advanced placement courses taken in high school under auspices of the College Entrance Examination Board's Advanced Placement Program provided the student scores a minimum 4 or 5 on the test. Official scores should be submitted for consideration.

When credit is awarded, it is entered on the transcript but the grade is not included in the college grade point average.

Courses for Qualified High School Students

On a space-available basis, Central Connecticut State University will allow qualified high school students to enroll in college courses, even though they have not yet graduated from high school. Students should be recommended by their high school principal and be approved by the University's department chairpersons for appropriate college coursework. For information on enrollment, contact the College of Continuing Education at (203) 827-7422.

Transfer Student Admissions

Transfer students may send applications directly to the Office of Admissions.

A student wishing to transfer to Central Connecticut State from another institution of higher learning must complete an application for admission and have an **official** high school transcript and an **official** transcript sent directly from each post-secondary school attended. Hand-carried transcripts and transcripts sent by students are unofficial even though they may carry the college seal or signatures that are placed on official records. Failure to list all institutions or to provide **official** transcripts may be considered sufficient reason for refusal of admission or dismissal. Transfer students who have earned a minimum of 12 semester hours (not to include remedial coursework) at other higher learning institutions need not present scores on the Scholastic Aptitude Test (SAT). To be considered for transfer admission, an applicant must have earned a minimum of 12 or more semester hours, not to include remedial coursework, and have a cumulative college grade-point average of 2.0 or higher for all coursework attempted.

After a transfer student is accepted, the official transfer credit evaluation is completed by the Office of Admissions. Transfer credits are accepted from appropriately accredited institutions. In general, accepted transfer students will receive credit for courses with grades of C- or better equivalent to those which are offered at Central Connecticut State. The University will not automatically accept all courses which are listed on the transcript. Students may contact the Registrar concerning the application of transfer credits towards fulfilling degree requirements at Central Connecticut State University.

State Community/Technical College Transfers

Graduates from transfer programs of the Community/Technical Colleges of Connecticut who have earned an associate degree with a minimum 2.0 GPA are admissible to Central Connecticut State University. Transfer credits will count toward degree requirements as determined by their equivalency to CCSU courses.

A minimum of two additional years of full-time study is required to complete a baccalaureate degree. Qualified students may also be admitted prior to conferral of the associate's degree.

Transfer applicants holding the associate's degree from the Board of State Academic Awards (Charter Oak College) also are admissible to the University. Such applicants, however, may be granted credit beyond the two-year level as acknowledged on their official transcripts from the Board of State Academic Awards. Students who consider transferring to Central Connecticut State in the second semester are advised to note the application deadline as well as the date on which classes begin.

Part-time Students — Matriculants Only

Candidates for part-time matriculation are expected to meet the same criteria as students accepted for full-time study. Application for part-time matriculant study is made in the Office of Admissions.

For additional information concerning part-time study, please refer to the catalog section, "College of Continuing Education and Summer Session."

Re-Entry

A student who was matriculated at Central Connecticut State University and subsequently withdrew voluntarily or involuntarily must request reactivation of his or her file: The student must be in good standing as outlined in the catalog. A student who has been placed on academic dismissal at CCSU may be granted **reinstatement on probation** by the dean of the school the student is attempting to enter. Normally, a student must wait at least one semester before being considered for reinstatement. **Students on academic dismissal who are seeking reinstatement should begin the process by meeting with a counselor in the Office of Admissions.**

Fresh Start Policy

At the discretion of the Vice President for Academic Affairs or designee, a student whose college career has been interrupted three years or more may be considered for a "**Fresh Start.**" Under this option, the Registrar initiates a new GPA for the student beginning with his or her second matriculation and uses this new figure for graduation purposes. Each case is decided on its own merits and each decision has advantages and disadvan-

tages. Students returning to the University for full-time or part-time study after a long interval should consult the Office of Admissions.

Guidelines for the Fresh Start Program are:

- a. At least three academic years shall have intervened between exit from Central Connecticut State and re-entry at Central Connecticut State.
- b. The student shall not have attempted more than 60 semester hours at Central Connecticut State.
- c. The student's record will be treated as those of any transfer student.
- d. During the first semester back at Central Connecticut State, the student shall be restricted to 16 hours or less.
- e. Graduation requirements shall be those in the catalog in force at the time of re-entry.
- f. The option can be used only once.

Students interested in Fresh Start should begin by contacting the Office of Admissions.

Special Student Services

Academically prepared students with disabilities who are considering entrance to Central Connecticut State University are encouraged to contact Dr. George Tenney, director of the Office of Special Student Services (Willard 100, 827-7651, voice/TDD 827-7651), for assistance in making application and educational planning. (See Special Programs — Special Student Services) Early application is strongly recommended. Applicants seeking admission to the fall term must submit completed applications and appropriate credentials by April 1. Applicants seeking admission to the spring term must submit all credentials by Nov. 1. Learning disabled applicants should include Wechsler Adult Intelligence Scale — WAIS (evaluations should be within a two-year period prior to the time of application). Students with special needs are encouraged to register for Plan A of the SAT's which allows students six hours per day on any two consecutive school days within the calendar year to complete the examination. Information relating to the Admissions Testing Program for Disabled Students may be obtained by writing to Educational Testing Service, ATP Services for Disabled, PO Box 6226, Princeton, NJ 08541-6226.

Educational Opportunity Program

Educational Opportunity Program (EOP) is Central Connecticut State's five-week summer program designed for first-year students who have the potential to do college-level work, but who do not meet regular admissions standards. Students must be Connecticut residents with a high school diploma or G.E.D. and demonstrate a financial need.

EOP students spend one summer session in Central Connecticut State's residence halls, all expenses paid — books, tuition, room and board. Those accepted spend

weekdays in mathematics, English, study skills, reading and personal growth courses. In the evenings, they receive one-on-one tutoring and counseling. Late afternoons and weekends are devoted to a variety of activities.

EOP students are interviewed and evaluated halfway through the program and at its conclusion. If successful in completing the program, they are admitted to the University as full-time students in good standing. Inquiries should be addressed to the Director of Educational Support Services (Memorial Hall, 827-7119).

CONNCAP

Serving selected high school students from New Britain and Waterbury, the Connecticut Collegiate Awareness and Preparation Program is an Upward Bound-type program designed to help its students successfully complete high school and to enroll in a college or other post-secondary institution following graduation. Working cooperatively with the high schools in both cities, the CONNCAP program provides a range of activities and services to help strengthen students' academic skills, to provide educational and other enrichment activities, and to increase motivation and the desire to succeed. CONNCAP activities and services take place on the Central Connecticut State campus during the summer program, and in the high schools and on campus during the school year.

CONNCAP students are selected for the program during the spring of their eighth-grade year. Students who successfully complete four years of CONNCAP will be accepted by any of the universities within the Connecticut State University.

The Central Connecticut State CONNCAP program is offered through the Office of Educational Support Services (Memorial Hall, 827-7119). For more information, contact the program director.

International Students

Academically qualified students from other countries are considered for admission to Central Connecticut State University. Students applying for the fall semester (August-December) must submit the **Application for International Undergraduate Admission** and all supporting documents no later than April 1. Students applying for the spring semester (January-May) are required to have their application and credentials in by November 1. International students whose native language is not English must submit a Test of English as a Foreign Language (TOEFL) score of 500 or above indicating competence in the English language. International applicants must submit official copies of their secondary and post-secondary educational records. Records in languages other than English must be officially translated into English prior to submission. Student applicants must submit evidence of financial resources adequate for all expenses during the period of study. Information about TOEFL is

available from Educational Testing Service, P.O. Box 6151, Princeton, NJ 08541-6151, U. S. A. Also, before registering at Central Connecticut State University, international students must submit a medical history form, results of a complete physical examination, and the parents' or guardian's signed permission for medical treatment.

Central Connecticut State is authorized under federal law to enroll nonimmigrant alien students.

New England Regional Student Program

Central Connecticut State State University is a participant in the New England Higher Education Compact. This arrangement offers residents of the other New England states the opportunity to enroll at Central Connecticut State for academic programs unavailable in their home state at the resident tuition rate plus 50 percent. Similarly, Connecticut residents may avail themselves of programs offered by schools in other New England states not available at state colleges or universities in Connecticut.

For more information about two-year, four-year and graduate programs at New England state colleges and universities, write: Office of the Regional Student Programs, The New England Board of Higher Education, 45 Temple Place, Boston, MA 02111, (617) 357-9620.

Persons 62 or Older

The payment of tuition fees and certain other fees is waived for any person 62 years of age or older who has been accepted for admission and is enrolled in a degree-granting program. For more information on this policy for non-degree students, see Continuing Education.

Veterans/Reservists

Veterans who wish to attend Central Connecticut State must file an application prior to any set deadlines with the Office of Admissions and be accepted in a degree program. Upon acceptance, the veteran should register with the Office of Veterans Services to apply for V.A. educational benefits. The Coordinator is in Davidson Hall 109 (827-7853). Eligibility for educational benefits lasts for 10 years from the date of separation and, in some instances, depends on whether contributions were made to an education program while on active duty.

An original certified copy of the DD Form 214 (separation papers--copy number 4) should be submitted to the Office of Veterans Services if applying for benefits for the first time. Transfer students need only complete the appropriate forms.

V.A. educational benefits are paid at the end of the month for which the veteran has enrolled. Any change in credit load and/or degree program must be reported to the Office of Veterans Services since it may affect future benefits.

The Connecticut tuition waiver is available for veterans who served on active duty in the U.S. Armed Forces during time of war. They must have been released from active duty having served at least 90 days under honorable conditions. The periods of conflict are as follows: Vietnam Era (1-1-64 to 7-1-75), the Korean Hostilities (6-27-50 to 1-31-55), World War II (12-7-41 to 12-31-46) or engaged in combat or in a combat support role in the Grenada Invasion (10-25-83 to 12-15-83), the Lebanon Peace-Keeping Mission (9-29-82 to 3-30-84) or Operation Desert Shield and Operation Desert Storm (8-7-90-~~to 6-30-91~~ ending date to be established). The 100% tuition waiver for general fund students (50% of course fees if enrolled as part-time matriculants through the College of Continuing Education) is available for veterans if they are residents when accepted for admission to Central Connecticut State. National Guard and tuition waiver students should contact the Office of Veterans Services (Davidson Hall 109, 827-7853).

Also, Educational assistance is available for members of the Selected Reserve. The reserve components include those of the Army Reserve, Navy Reserve, Air Force Reserve, Marine Corps and Coast Guard Reserve, and the Army and the Air Force National Guard.

Medical Exam

The University requires that each full-time student submit a medical history (including current immunization record) and a physical examination form signed by a physician. Additionally, if the student is under 18, the parent or guardian must sign permission for medical treatment.

The completed form must be returned to the University Health Service in Marcus White Annex prior to the beginning of classes. See the Student Information section of the catalog for detailed information. The health form may be obtained from Health Services (827-7375).

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EXPENSES

(Fees and due dates are subject to change without notice)

COSTS 1993-94

(1994-95 costs not available at time of printing)

The cost of attending Central Connecticut State for Connecticut residents is \$1,488.00 per semester. Of this figure, \$877.00 is for tuition, \$304.00 is for general fee, \$270.00 is for State University fee and \$37.00 is for student activity fee.

Out-of-state students pay a higher tuition and State University fee: \$2,839.00 and \$664.00, respectively, per semester.

In addition, students are billed an annual sickness insurance fee of \$242.00 in the fall semester. Those who already have adequate insurance may complete a waiver form and return it to the University Health Services.

Students residing on campus are charged \$1,171.00 per semester in residence hall fees (including social fee) and \$885.00-995.00 per semester depending on the meal plan selected.

Cooperative Education students pay a Co-op fee of \$200.00 for each of eight of ten participating semesters—see under Cooperative Education.

Music students are assessed a special fee--see under Music Department.

Payments of Tuition and Fees

All students when first accepted for admission or re-admitted to Central Connecticut State must pay a non-refundable \$90 admission binder (applied to tuition) within the time specified on the bill. The balance of tuition and fees is due July 15 for the fall and January 3 for the spring.

Room and Board

A \$100.00 room deposit from those who are currently residing in the residence halls is due April 1 for the fall semester and November 1 for the spring semester. The balance \$1071.00 is due July 15 and January 3.

Students assigned to the residence halls following those due dates will receive notification of bills payable by the due date stated on the bill.

Failure to pay room charges by the due date indicated on the bill will cause cancellation of the student's housing.

All students residing in residence halls are required to participate in a Board Plan (either the 19-, 14- or 12-meal plan). The Board Fee is due July 15 for the fall semester and January 3 for the spring semester.

Refund Policy for Full-time Students

Students contemplating withdrawal from the University must complete a formal application with the Associate Dean of Finance and Administration, (Davidson Hall 109). All applicable refunds are automatic upon formal withdrawal from the University.

Fee Refund Policy

Admission Binder Fee, \$90	Non-refundable
Balance of Tuition and Fees	Upon withdrawal from the University, 100% of the balance paid will be refunded prior to to first day of classes; 60% of balance during the first two weeks of classes; 40% of the balance during the third and fourth weeks of classes; no refund after the fourth week.
Housing Deposit, \$100	Non-refundable
Balance of Housing Fee	Upon withdrawal from the University, 100% of the balance paid will be refunded prior to to first day of classes; 60% of balance during the first two weeks of classes; 40% of the balance during the third and fourth weeks of classes; no refund after the fourth week.
Board Fee	Refundable upon withdrawal from the University on a prorated basis. Full weeks will be used to prorate.

Refund Policy for Continuing Education Students

See Continuing Education Bulletin for details on refunds.

Refund Policy for Co-op Students

Refund of the Cooperative Education Fee is the same as refund of regular tuition and fees except formal application for withdrawal from the Co-op Program must be submitted to the Director of Cooperative Education (Willard Hall 100) 827-7482.

Non-refundable Fees

For all students the application fee, admission binder, room deposit, late fee and returned check service charges are non-refundable.

Off-Campus Room Rent

Students living off-campus will pay their room rent directly to the landlord. Such students may arrange with the Cashier's Office for participation in the University Board Plan at the same rate as for on-campus students.

Late Fee

A late fee of \$25 is assessed a student paying tuition/fees after the due date.

Students who do not pay fees by the due date will be dropped as full-time students and will forfeit all prior accommodations (such as housing).

Returned Checks

A service charge of \$20 is assessed for any check returned by the maker's bank for any reason. The University will not accept any future personal checks presented by persons who have previously submitted non-negotiable checks.

Certificate of Residence

Tuition and fees are determined for each student on the basis of Connecticut or out-of-state residency.

Failure to disclose fully and accurately all facts related to residence shall be grounds for disciplinary action.

To be considered for in-state tuition, incoming non-resident students who feel that they have met residency requirements prior to the start of the semester must complete residency reclassification affidavits obtained from the Admissions Office.

Non-resident students who feel that they have met residency requirements occurring after the start of their first semester must complete residency reclassification affidavits obtained from the Registrar's Office.

Unpaid Obligations

The Bursar will take appropriate administrative action which may include, but not be limited to, any or all of the following measures against individuals who have an unpaid financial obligation to the University:

- a. Withholding of University services, course registration materials, transcripts of grades or other official papers.
- b. Bar against re-admission.
- c. Deny Continuing Education course registration.
- d. Referral of the unpaid financial obligation to the University's collection service.

The office of the Bursar will serve notice to the student, and failing to receive full payment within five (5) days of the date of such notice, the appropriate sanction will be implemented.

FINANCIAL AID SERVICES

The Purpose of the Program

The purpose of the Financial Aid Program is to help students finance their education when their own and their family's resources are inadequate. It is a fundamental principle of financial aid, however, that the primary responsibility for meeting the cost of the University lies with the student and his/her family.

The University uses the Federal Needs Analysis Methodology to determine an expected Family Contribution. This is subtracted from the total cost of tuition, fees, room and board, books supplies, personal expenses and transportation for the academic period of attendance. A financial need is thus determined. Those students who have a "substantial financial need" will have priority for University controlled grant, loan and work-study programs. Students who are deemed to have no need or a relatively lower need are directed towards low-interest loan programs.

Since the University is highly dependent upon varying allocations of federal and state funding, the definition of "substantial need" is adjusted each award year; however, previous recipients of financial assistance should expect an increasing level of loan obligation each ensuing year of attendance.

The Application Process

1. By **March 15** of the award year, please complete and mail the **FREE APPLICATION FOR FEDERAL STUDENT AID (FAFSA)**. Be sure to list "Central Connecticut State University, 1615 Stanley Street, New Britain, CT" in the College Release and Certification Section of the form.
2. By **May 1**, please send the entire **STUDENT AID REPORT (SAR)**, (returned to you within four weeks of filing the FAFSA), to the Office of Financial Aid. Be sure you have **completed and signed** the back of this form on the section "Statement of Educational Purpose/Registration Compliance Act." If you have to return the SAR for correction, make a photocopy first, and return that to Financial Aid.
3. By **May 1**, please confirm your admission to Central Connecticut State University by payment of your **Binder Fee**.

4. By **May 1**, all transfer students must have the financial aid transcript(s) sent from all previously attended institutions to CCSU's Aid Office.

Additional Information

Approximately 30% of all students applying for financial aid are chosen each year for Verification. A **VERIFICATION STATEMENT** will be mailed to those students chosen for verification. Students who are chosen must follow the directions carefully and return the statement, along with any required, signed photocopies of the student's and the student's parent(s)' (if applicable) previous year's tax forms, **within two weeks of receipt**, to the CCSU's Office of Financial Aid. Be sure to put the **NAME AND SOCIAL SECURITY NUMBER OF THE STUDENT APPLICANT** on all parental tax forms and other requested documentation.

The Awards Process

University funds are limited and may not be granted to students who miss the above deadlines. Students who meet the above deadlines can expect an award letter in **June**. Normally, an award package will contain an on campus job and loan component.

University-controlled grant and loan awards will be reflected on the first billing of those students who meet the deadlines. **Late applicants may not be processed in time to have any aid applied against their outstanding bills.**

Part-time Students

Students attending the University on a part-time basis will have their aid applications processed once they are complete and their enrollment status is finalized at the beginning of each semester. Deferment of tuition and fees may be arranged during registration.

Questions regarding procedure or awards should be directed to the Office of Financial Aid, Davidson Hall 107, 827-7330.

Major Sources of Financial Assistance

All financial aid comes in one of three basic forms: grants or scholarships that do not have to be paid back; loans to students or parents that may or may not have to be paid back until the student graduates or leaves school; work programs that provide funds during the school year.

The above process applies to all need based aid programs at Central Connecticut State University which include: The Federal Pell Grant, The Federal Supplemental Educational Opportunity Grant, the Federal Perkins Loan, the Federal Work-Study Program, Connecticut Aid for Public College Grant and the Student Community Service Program, Connecticut State University Grant and the Federal Stafford Loan Program.

Applications for Unsubsidized Federal Stafford Loans and supplemental loan programs, such as the Federal Plus and SLS, State FELP or TERI loans are made separately, after your need level has been determined.

A list of Honors and other University scholarships, that are based on criteria other than need, can be found elsewhere in this section.

Finally, students are encouraged to explore other sources of financial assistance, including private scholarships, Veteran's and or National Guard benefits.

Basic Eligibility Criteria

To be eligible to receive assistance from federal and/or state financial aid programs, a student must be a U.S. citizen or an eligible non-citizen, be matriculated and maintain Satisfactory Academic Progress, which is defined as follows:

Satisfactory Academic Progress Policy

Students receiving financial assistance under the federally supported Title IV programs must comply with the *following set of standards to be eligible for such assistance*.

- A. Quality of academic performance: Students must be matriculated and must maintain that quality of academic performance required to remain a matriculated undergraduate or graduate student in the University.
- B. Speed of completion of the bachelor's degree objective, i.e., satisfactory progress:
1. For full-time undergraduate students, satisfactory progress is defined as the successful completion of a minimum of 24 credit hours of academic work per academic year for students who enroll in the fall and 12 semester hours of academic work for those initially enrolling in the spring or enrolling only in the fall or summer term. An academic year runs from the beginning of the fall term to the end of the spring term. Non-credit developmental courses recommended by the student's academic adviser will count on a semester-hour equivalent basis determined by the University as part of the 24 or 12 semester hours specific above. Failed courses or audited courses will not be counted. Students will be eligible for financial assistance for no more than 10 semesters of full-time attendance or until the student is certified for graduation by the University, whichever comes first.
 2. For part-time undergraduate students, satisfactory progress is defined as the successful completion of a minimum of 12 semester hours of academic work per academic year for students who enroll in the fall and 6 semester hours for those initially enrolling in the spring or enrolling only for the fall or summer term. An academic year runs from the beginning of the fall term to the end of the spring term. Non-credit developmental courses recommended by the student's academic adviser will count on a semester-hour equivalent basis determined by the University as part of the 12 or 6 semester hours specific above. Failed courses or audited courses will not be counted. Students will be eligible for assistance for no more than 20 semesters of part-time attendance or until the student is certified for graduation by the University, whichever comes first.
- C. Speed of completion of the graduate objective, i.e., satisfactory progress:
1. For full-time graduate students, satisfactory progress is defined as the successful completion of a minimum of

- 18 semester hours of academic work toward completion of a graduate degree or planned program per academic year for students who enroll in the fall and 9 semester hours for students initially enrolling in the spring or enrolling only for the fall or summer term. Failed courses or audited courses will not be counted. Students will receive financial assistance for no more than 4 semesters of full-time attendance or until the student is certified for program completion by the University, whichever comes first.
2. For part-time graduate students, satisfactory progress is defined as the successful completion of a minimum of 12 semester hours of academic work toward completion of a graduate degree or planned program per academic year for students who enroll in the fall and 6 semester hours for students initially enrolling in the spring or only the fall or summer term. Failed courses or audited courses will not be counted. Students will receive financial assistance for no more than 8 semesters of part-time attendance or until the student is certified for program completion by the University, whichever comes first.

The Satisfactory Academic Progress Policy will be implemented as follows:

- A. For purposes of this policy, Satisfactory Academic Progress will be measured against credits earned during the prior academic year (September through May).
- B. Students who do not attain the appropriate levels of satisfactory progress for the semester will not be eligible for financial assistance or this policy.
- C. Up to 10% of students may be exempt from this policy by the President.
- D. Financial aid programs include:
1. Federal Work-Study Program
 2. Federal Perkins Loan
 3. Connecticut Aid for Public College Students Grant
 4. Connecticut State University Grant
 5. Federal Stafford Loan
 6. Federal PLUS/Supplemental Loan Programs

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Honors Scholarships

Approximately two dozen grants-in-aid may be awarded annually to first-year student entering and remaining in the Honors Program.

These grants-in-aid are in the amount of the total of in-state tuition and fees (currently approximately \$2,414 per year).

Standards of high performance in high school are required, and candidacy is by invitation from the Director of the Honors Program.

University Scholarships

CCSU Foundation Scholarships

The following scholarships are administered by the CCSU Foundation, Inc. Inquiries should be made in writing to the CCSU Foundation, Inc., P.O. Box 612, New Britain, CT 06050.

Alpha Phi Omega National Service Fraternity Scholarship — a scholarship to an undergraduate student who demonstrates a record of service to the applicant's community and school.

Justus Beach Scholarship — awarded to a full-time undergraduate minority student majoring in any of Central Connecticut State University's teacher preparation programs.

Joseph Bellomo Scholarship Fund — an annual award divided between varsity athletes on the softball and wrestling teams.

Ruthe Boyea Scholarship — nominated by the Committee on the Concerns of Women, recipient must show promise of outstanding academic and career potential and support the enhancement of women.

Stephen & Marie Burg & Family Scholarship — this scholarship is awarded annually to a junior- or senior-level student in the School of Technology with outstanding academic and career potential.

Business Education Alumni Award — an award made annually to an alumnus who has completed bachelors degree requirements in Business Education at Central Connecticut State University.

Frank D. Cannata Scholarship Fund — scholarships awarded to seniors with the highest cumulative grade point average in accounting and business education.

CCSU Foundation Scholars — 10 four-year, renewable scholarships awarded to incoming first year students on the basis of a competitive math and English exam.

William Chatfield Fund — an award made annually to a junior or senior majoring in Technology Education.

Esther Murray Clarke Scholarship — a scholarship given to a junior enrolled in the School of Education's elementary education teacher preparation program.

Class of 1940 Scholarship — an annual scholarship to a junior or senior in any teacher preparation program.

Maynette Reid Crothers Scholarship — given to active members of any CCSU women's intercollegiate athletic team.

CSEA - Chapter 31 — an award made annually to CCSU faculty children.

William Detrick Basketball Scholarship — awarded to members of the men's or women's varsity basketball teams.

M. DeLott Garber Scholarship Fund — this scholarship is available to juniors in School of Education.

Geary Memorial Fund — awarded to junior-level students majoring in elementary education, special education, or engineering technology.

Norman Gerber Scholarship — the recipient shall be an active member of the Central Connecticut State University intercollegiate golf team.

Martin & Sophie Grzyb Memorial Fund — awarded to a student of American birth who excels in Polish Studies at Central Connecticut State University.

C. J. Huang Endowment — to support exchange of faculty, students and staff with Ouyang Yu Middle School in Hunan Province, Peoples Republic of China.

John Huntington Athletic Training Scholarship — awarded to a senior completing requirements for athletic training certification.

Joseph Award — awarded for excellence in instrumental organic analysis.

Richard Judd Scholarship — awarded annually to a student from greater New Britain who has demonstrated outstanding community service.

G. Wesley Ketcham Scholarship Fund — a scholarship given to a full-time junior or senior in technology education.

Ki Hoon Kim Scholarship Fund — scholarship support for Korean students attending Central Connecticut State University and University faculty and students who want to study or do research in Korea.

Koh Scholarship Fund — a scholarship for students of Korean descent or United States citizens studying in the Republic of Korea.

Valle P. Lattanzio Scholarship — given annually to a matriculated student at Central Connecticut State University pursuing a bachelor's degree and certification in elementary education.

Lester Levine Scholarship Fund — awarded annually to a junior or senior majoring in education.

Litton Industries Scholarship — awarded to junior or senior students in the School of Technology on the basis of scholastic achievement and character.

Florence Widger Lohse Scholarship Fund — a scholarship awarded to an education major.

James A. & Mary Hayes Lord Scholarship — this scholarship is available to a full-time junior or senior in either the School of Education and Professional Studies or the School of Technology.

Al Martin Scholarship Fund — a scholarship awarded to a student member of OAAAS.

Raymond D. & Ellen N. Martinsen Scholarship — awarded to a student in any technology major in good academic standing.

Thomas F. Martucci Scholarship Fund — awarded to an incoming first-year student with a demonstrated record of participation and leadership in extra-curricular activities who has graduated from Newington High School.

William McInerney/Class of '38 Scholarship — a scholarship for junior- or senior-level student enrolled in any School of Education teacher preparation program.

Miano Memorial Fund — an award to a junior-level student chosen alternately from science or mathematics majors and arts or humanities majors.

Middlesex Mutual Assurance Company Scholarship — this scholarship is awarded to a junior in the School of Business expressing a commitment to a career in the insurance field.

George R. Muirhead Scholarship — a scholarship to assist students with academic exchanges in the United Kingdom.

Otis Elevator Minority Scholarship — one four-year scholarship to a minority student of outstanding academic potential studying for a degree in engineering technology or business.

Ted Owen Track & Field Scholarship — awarded to varsity athletes on the cross country or track teams.

Paul K. Rogers Scholarship — an award given annually by the Fluid Controls Institute to a full-time student with a long-term career interest in a recognized technological field.

Stanley Works Scholar Program — one four-year scholarship to a minority student from the New Britain area studying business or technology.

Jack Suydam Scholarship — a scholarship awarded to active members of the men's or women's varsity swimming teams.

William & Josephine (Bertino) Tansey Scholarship — this scholarship is given annually to a student majoring in mathematics education (mathematics teacher preparation).

Tomestic Scholarship — awarded to a student who has made outstanding contributions to Theatre Department.

Jerome Vigor Memorial Fund — awarded to a graduating senior majoring in economics who has been accepted for graduate studies at an accredited college or university.

Paul Vouras Award — presented to the graduating senior with the highest cumulative grade point average of a student majoring in social science, geography, sociology, political science, economics, history.

Stella Willins Scholarship — a scholarship to a business education student of outstanding merit.

Michael J. Witty Scholarship Fund — an awarded given to students in the School of Business majoring in accounting with preference given to an student who demonstrates special ability and interest in taxation.

Alvin B. Wood Scholarships Fund — awarded to a minority student with a minimum 24 credits completed and demonstrated leadership and service to the University.

Institutional Scholarships

For information about the following scholarships, please contact the departments noted.

CCSU Accounting Society Merit Scholarship — awarded to an accounting major who has earned a minimum of 72 credit hours, and has displayed academic merit and club involvement. (Inquire: Department of Accounting)

Jack Arute Sr. Scholarship — awarded every four years in memory of John Arute Sr. to a graduate of a parochial, private or public school in the New Britain area. (Inquire: Department of Athletics)

Class of 1971 Scholarship — established for members or the children of members of the Class of 1971. (Inquire: Office of Financial Aid)

Judd Trust Scholarships — scholarships granted annually to minority students from Hartford who graduate from approved high school programs. (Inquire: Office of Admissions)

Robert E. Sheriden Scholarship — established in memory of Robert E. Sheriden for students who have talent and interest in the fields of public relations, writing and politics. (Inquire: Department of Communication)

Herbert D. Welte Scholarship Fund — awarded to a minority students with a minimum of 24 credits completed, a minimum cumulative grade-point average of 2.80, and demonstrated leadership and service to Central Connecticut State University. (Inquire: International Affairs Center)

ALUMNI ASSOCIATION

The Alumni Association offers all possible aid and cooperation in promoting and advancing the mission of the University. The Association, in cooperation with the CCSU Foundation, supports programs benefitting Central Connecticut State and assists many students through scholarship and academic enrichment programs.

Undergraduates are invited to stop in Barrows Hall, Penthouse.

STUDENT INFORMATION

Orientation

An extensive orientation program for new students is held in late summer, prior to the beginning of classes. The program is designed to introduce students to campus and academic life, and uses peer orientation leaders and small groups to establish a framework for a successful first year at Central Connecticut State.

An orientation for parents of traditional-age students is included as part of the program to familiarize parents with the Central Connecticut State community and to assist in supporting their son's or daughter's transition to university life.

Special orientation programs are also provided for transfer students. Orientation programs are coordinated by the Student Affairs Office.

University Personal Counseling Services

The University Personal Counseling Services provides professional quality individual, family and group counseling and therapy services to students who may be experiencing ongoing or situational psychological or behavioral difficulties. Outreach programs focus on the developmental needs of students, including professionally led groups, workshops and self help groups. Consultative services, research, evaluation and training of new professionals are also provided. Personal Counseling services are private and confidential and no fee is charged. Every effort is made to help students feel safe, welcome and able to discuss their concerns. Call (203) 827-7655 or visit the University Personal Counseling Services Office in Willard Hall 105.

Campus Ministry

The Campus Ministry Association, located in Marcus White Hall 201, seeks to promote personal and communal growth and well-being at Central Connecticut State. Towards this end, campus ministers are available for personal counseling, participation in discussion, and a variety of spiritual, social-action and educational programs. Students are encouraged to call 827-7960 for more information.

Women's Center

The Ruthe Boyea Women's Center (Marcus White Hall 103, 827-7411) named for its founding director, is a multi-purpose program and service center for students, staff and faculty. The center offers a variety of services for and about women, including peer education, support

groups, crisis intervention, programming and research on women's issues, and a luncheon series. The staff of the center also sponsors educational and cultural programs in response to the needs and interests of campus women. The center is open Monday through Friday and evenings as posted to serve evening students. For information, call 827-7411 or drop in. Both men and women are welcome.

Office of Alcohol and Drug Abuse Prevention

Established in 1987, the Office of Alcohol and Drug Abuse Prevention is a department within the Division of Student Affairs. Its mission is to promote the health and wellness of all members of the CCSU community through programs designed to prevent problems caused by high risk use of alcohol and other drugs. The office sponsors a variety of prevention education programs and provides confidential assessment and referral services.

Programs on campus include Natural Helpers Training, Peer Education programs, "On Campus Talking About Alcohol" workshops, training to student leaders and professional staff, substance abuse educational resources and individualized development of student internships, practicums and assistanceships. For more information call 827-7883.

Faculty Advising

Each student is assigned a faculty adviser for consultation on course selection and approval of each semester's program of studies. Undeclared majors seeking information should consult Advising Information Services in Willard 100. The academic deans, as well as faculty advisers, assist students on a wide range of academic matters. The Registrar's Office helps resolve problems concerning evaluation of credits, transfer credits, change of program and course conflicts.

Housing

Since demand for campus residence often exceeds space available, acceptance to Central Connecticut State does not automatically guarantee a student a room. Information on University housing is forwarded shortly after official notification of acceptance from the Admissions Office. Applications for rooms, on the forms provided by the University, are considered in the order of acceptance. Because of the housing shortage, students are urged to return housing applications promptly. These applications should be mailed to the Director of Residence Life, Mildred Barrows Hall (827-7427).

The Residence Life Office, in Mildred Barrows Hall, assists students in University housing matters. The Living Guide brochure details residence hall policies. Listings of off-campus rentals are also available from the Residence Life Office.

Rooms for Outstanding Students

Residence hall spaces for outstanding students may be reserved for first-time applicants who are in the 80th percentile or higher in their graduating class and who earned scores of 1000 or better on the Scholarship Aptitude Test. Housing spaces will be made available to students meeting the above criteria who have applied to the University prior to January 1.

Study Abroad Programs

Central Connecticut State provides a number of opportunities for students to engage in study abroad for one or two semesters. A variety of summer programs are also available. Special arrangements have been made through various programs to ease credit transfer, housing arrangements and costs. Opportunities are available in more than 35 countries worldwide.

Students interested in applying for overseas study should contact the coordinator, International and Study Abroad Programs, International Affairs Center, Elihu Burritt Library 103.

Student Center

The Student Center, as a student union, is the "living room" or "hearthstone" of the campus, providing community service, student development opportunities, and various services that support student life.

Lounges, conference rooms, a multi-purpose ballroom, The Devil's Den Cafeteria, the Bookstore, a game room, information services, facilities scheduling, duplicating services, a periodical library, a typing center, a box office, fax machine and other services are available to the campus community. The Student Center also recognizes its role as the primary provider of many services to the commuting student and emphasizes this role in the delivery of these services to the campus.

One of the most exciting services of the Student Center is the University Club, Semesters. Located next to the Devil's Den Cafeteria, Semesters provides a social gathering place for the entire University community day and night. In addition to a high-tech large screen video system, Semesters, with one of the best audio systems in the area, is used each week for dances and social activities. Semesters is also home to a weekly film series, the Kickbacks Coffee House, and Groucho's Comedy Club, all sponsored by the Student Center Program Council.

Students participate in every aspect of the operation and management of the Student Center, and learn valuable skills through the Center's S.T.A.R. Program. The S.T.A.R. Program uses the employment experience as an opportunity for students to develop while serving the campus community. The over 60 students employed by the Student Center participate in the program which provides them with more than just a paycheck. The S.T.A.R. Program is designed to increase self-confidence and mo-

tivation, teach marketable skills, and provide a forum for students to test career options and explore academic interests. Involvement with the S.T.A.R. Program is "experiential" in nature. Its focus is educational and occurs outside of the standard classroom environment. We believe that such experiences play a crucial role in providing students with a more enriched education.

Volunteer positions are also available on the Student Union Board of Governors and its committees. In these positions students interact closely with other students, staff and the administrative faculty who are involved in the Student Center's mission of service to the campus community.

Whether one gets involved in its operation or merely uses its many services, the Student Center can enhance a student's experience at the University by expanding horizons or just making life a bit easier and more pleasant.

Student Activities and Leadership Development

Student activities programming is a valuable part of the educational experience to which every University student is entitled, and is available to every student as a participant/planner and audience/observer.

The Department of Student Activities and Leadership Development is responsible for the delivery of many educational, recreational, social and cultural opportunities.

It is a major function of this office to create the opportunities for student leaders to develop. This will be done in a variety of ways that include workshops, seminars, instruction, and the Experiential Learning Transcript, and a recognition program. Furthermore the Volunteer Assistance Program is also coordinated out of this office. Students are encouraged to volunteer either on campus or in the greater community as part of their university experience.

This office is also responsible for advising the Student Center Program Council and for the general coordination of student activities. It is located on the second floor of the Student Center.

Student Development Center

The Student Development Center is the umbrella for three essential services that are designed to help students to utilize the extensive resources of the University to their best advantage and to make their academic programs work for them. The service activities of the Student Development Center focus on students at key transition points in their University experience — as they enter the University; when they need additional academic support; and as they plan for entering future careers.

The Student Development Center maintains a resource library in Willard 100 which includes information on careers related to majors, graduate school and career opportunities, and information on major employers and

job hunting. The Resource Library also contains job listings and internship opportunities. The services of the Student Development Center are:

Advising Information Services

Advising Information Services assists students in developing and implementing academic and career plans. For new students trying to understand University requirements, AIS provides pre-registration advising. For students who are uncertain about either their major or their career plans, AIS offers several self-assessment instruments to clarify values, identify interests, and enumerate career options. AIS advisers can help students select from among experiential learning opportunities such as internships, community service, student activities, and cooperative education. This experiential learning can be documented through the Experiential Transcript Program. If career plans involve graduate study, AIS has preliminary graduate school information and can refer students to faculty advisers who can assist them further. AIS serves both faculty and students as a resource center for developmental advising.

Career Services and Cooperative Education

The University Career Services Office provides a comprehensive program of career services to all students. Graduating students are provided assistance with making the transition to employment through a program which includes workshops on resume writing, interviewing techniques, job search strategies and information on employment. Recruiters from major area corporations, government agencies and school systems visit the campus as a part of the year-long campus recruiting program. In addition the office maintains listings of full- and part-time jobs. Experiential education is a major focus for undergraduate students, and Career Services coordinates the University's sizeable Cooperative Education program which is described in detail elsewhere in this catalog.

Educational Support Services

Educational Support Services helps students to improve their thinking and study skills. Through assessment of learning styles, workshops and individual counseling students develop learning strategies that work to improve their academic performance. ESS also provides direct referrals to other campus tutorials. The Educational Opportunity Program for entering students and Connecticut Collegiate Awareness and Preparation (CONNCAP) program for students from Waterbury and New Britain high schools are also under the direction of this office.

Health Services

The University Health Service offers a variety of services to all students (graduate and undergraduate). Staff

and faculty can also be seen for immediate medical care or referrals where indicated. A full-time physician is in attendance during the day Monday through Friday and available on an on-call basis for emergencies.

Services provided to full-time students at no cost include:

- a. treatment of illnesses and injuries
- b. treatment of gynecologic and urologic problems
- c. some on-site diagnostic tests
- d. weight and blood pressure monitoring

Treatments requiring a fee include:

- a. additional laboratory or diagnostic evaluations
- b. prescriptions (starter doses of some are available free)
- c. the cost of a consultation with a specialist
- d. allergy immunization clinic

It is mandatory that all full-time students have health insurance coverage. Each student can either choose to purchase the sickness insurance through the University or elect alternative coverage through an outside carrier. The University does provide automatic accident coverage for all full-time students which is not the primary carrier for an accident unless there is no other insurance held in the student's name. The same accident/sickness policy is being offered to part-time students and dependents of students at a different fee scale.

All full-time students are required to submit a medical history, current immunization record, and physical examination form signed by a physician. If you're under 18, a parent or guardian must also sign for permission for you to receive medical treatment. All part-time students are required to submit necessary immunization requirements in keeping with the policy of the state of Connecticut Department of Health Services. Failure to submit the required medical information may result in the withholding of registration, grades or housing assignments until the obligations have been met.

If you are absent for more than five days because of medical reasons and were not seen in the University Health Service, you should inform the Office of Student Affairs of your absence. This information will then be relayed to your professors. The University Health Service will notify the Office of Student Affairs if the student is seen in their department and needs to be out of school of an extended period of time.

Health Services, located in the Marcus White Annex, is open Monday-Friday, 9 a.m.-3 p.m. Hours are subject to change.

Student Government

It is considered to be ideal for the students of a university to have a student association to serve their needs and desires as students. The undergraduate students at

Central Connecticut State have such a student association called the Student Government Association (SGA).

As members of the SGA, all full-time undergraduate students and all part-time undergraduate students (if the part-time undergraduate student population is charged the student activity fee) have the right to vote in SGA elections. The voting membership of the SGA elects the Student Senate (the SGA's legislature), and high executive officials of the organization.

The undergraduate student body charges the SGA with the responsibility for ensuring the protection of the students' rights, for ensuring that the decisions affecting the students as students are as favorable as possible to the students, for working toward the improvement of the educational process, for enhancing and protecting the students' welfare, and for anything else that they choose for the SGA to pursue.

To finance the operations of their SGA, each voting member of the SGA contributes into the funds under its management through the student activity fee. The SGA spends these funds on the fulfillment of its responsibilities by utilizing them directly, and by financing the activities of numerous student clubs and organizations.

For further information about the SGA, contact the SGA Office, Student Center second floor, Room 202 (225-9313).

Student Regulations

Regulations of the University are contained in the University Catalog, the Student Handbook (available at the Office of Student Affairs) and the Living Guide (available at the Residence Life Office). Students having questions regarding the regulations may consult the appropriate office.

The student must know and abide by the rules and regulations of the University concerning conduct, attendance, etc. Violators are subject to disciplinary action.

Student Organizations

Clubs and organizations provide students opportunities for social interaction, recreation, leadership training and enhancement of academic interests. Involvement in organizations for most students is an important aspect of their education. Information about clubs can be obtained at the Activities Carnival or through assigned student organization mailboxes at the Campus Post Office in the Student Center.

Participation in a club or organization can be included in the student's personal transcript through the Second Transcript Program. For more information on this or other aspects of student organizations contact the Student Center, Student Activities Office or Student Affairs Office.

The organizations:

ACADEMIC RELATED

Accounting Society, Administrative Management Society, American Chemical Society, American Society of Civil Engineers, Anthropology Club, Associated General Contractors, Athletic Trainers Association, Biology Club, Caducean Club, Communications Club, Computer Club, Co-op Education Student Association, Council for Exceptional Children, Distributive Education Clubs of America, Economics Forum, Education Club, Financial Management Association, Geography Club, History Club, Industrial Technology Club, LeSalon—Art Club and Marketing Simulation Club, Marketing Club, Meteorology Club, Minority Business Students Association, Music Educators' National Conference, Nurses Association, Philosophy Club, Photography Club, Physical Education Majors Association, Political Science Forum, Psychology Club, Science Club, Society of Manufacturing Engineers, Sociology Club, Student Peace Education Action Committee, Student Social Workers Organization, Technology Education — collegiate association.

ETHNIC AND INTERNATIONAL CULTURE

American and Japanese Club, American Indian Cultural Organization, Association for East Asian Studies, Chinese Club, French Club (Le Circle Francais), International Relations Club, Italian Club (Il Circolo Italiano), O.A.A.A.S. — Organization of African-American and African Students, Indian Students Organization, Korean-American Club, Latin American Students Organization, NAACP Organization, Polish-American Club, Vietnamese-American Club, Western Culture Club.

FRATERNITIES AND SORORITIES

Alpha Pi Omega Fraternity, Gamma Sigma Sigma Sorority, Nu Beta Gamma Sorority.

GOVERNMENTAL

Senior Class Committees, Graduate Student Government Association, Inter-Residence Council, Residence Hall Councils, Student Center Board of Governors, Student Center Program Council and Student Government Association.

HONOR AND PROFESSIONAL

Alpha Nu Gamma, Delta Phi Chapter, Foreign Language Honor Society; American Society of Safety Engineers; Delta Mu Delta, National Business Honors Society; Epsilon Pi Tau, Alpha Eta Chapter, International Honorary Professional Fraternity for Education in Technology.

Gamma Theta Upsilon, Honorary Society—Geography; Kappa Delta Pi, Honor Society—Education; Omicron Delta Epsilon, International Honor Society—Economics; Lambda Mu Mu—Mathematics Club; Phi Alpha Theta, National Honor Society—History; Phi Mu Alpha Sinfonia, Music Honor Society; Psi Chi, National Honor Society—Psychology; Upsilon Pi Epsilon, Beta Chapter, Computer Science Honor Society.

MEDIA AND PUBLICATIONS

CENTRAL RECORDER, newspaper; DIAL, yearbook; HELIX, literary journal; Video Club, WFCS-FM 98, radio.

PERFORMING GROUPS

Cheerleaders, DanCentral, Ebony Choral Ensemble, Pep Dancers, Drum Corps, Theatre Unlimited.

RELIGIOUS

Christian Students at Central, Hillel Jewish Student Organization, Muslim Students Organization, Newman Club.

SPECIAL INTEREST

Alliance of Humans for Non-human Animals, CCSUniverse and Central's Women Student Organization, Dialogues Club, PRIDE — lesbian, gay and bisexual students, ROTC, Student Peace Education Action Committee, Students Promoting Athletics, Whole Earth Club.

SPORTS AND RECREATION

Bicycle Racing Club, Boxing Club, Chess Club, Crew Club, Fencing Club, Flying Club, Hang Gliding Club, Ice Hockey Club, Karate Club, Lacrosse Club, Outing Club, Rugby Club — Men's, Sailing Club, Scuba Club, Ski Club, Ski Racing Club, Soccer Club — Women's, Weight-Lifting Club and Wrestling Club.

Cancellation of Classes

If it is necessary to cancel or delay day classes due to inclement weather, the University will notify radio station WTIC-AM, Hartford (1080). If no announcement is made by WTIC-AM of cancellation of classes at Central Connecticut State, day classes will be held. Other radio stations will also be contacted.

Parking

Improperly parked motor vehicles may be ticketed or towed from the campus at the owner's expense. Information on traffic and parking regulations can be found in the Student Handbook, the Parking Guide, or from the University Police Department, Sefton Drive, 827-7396.

Sports and Recreation

Central Connecticut State encourages a balanced program of sports and recreation consistent with the educational responsibilities of the student.

Intercollegiate athletics are a tradition at Central Connecticut State. Varsity contests are scheduled in basketball, cross country, softball, swimming, indoor and outdoor track, tennis, and volleyball for women; baseball, basketball, cross country, football, golf, soccer, swimming, indoor and outdoor track, tennis, track and wrestling for men.

Central Connecticut State's Blue Devils have gained national recognition on the playing fields. The Universi-

ty is a member of the National Collegiate Athletic Association, the Eastern College Athletic Conference and East Coast Conference, conducting its athletic programs under the rules of these organizations.

Students may also take advantage of indoor and outdoor facilities for recreational use and intramural programs.

Cultural Opportunities

Many cultural opportunities are available to students at Central Connecticut State, both on campus and in the New Britain and Hartford areas.

On campus students will find the new Samuel Shih-Tsai Chen Art Center, featuring an array of international, national and regional artists presenting exhibits of fine arts, design and scholastic arts. Students may also take advantage of concerts, theater, choral performances and dance presentations by student groups, faculty and professional companies from around the world in Maloney Hall.

The Student Center Program Council Arts Committee is a student-run committee committed to presenting a variety of visual and performing arts. Students interested in being involved behind the scenes can contact the Program Council in the Student Activities Office of the Student Center.

Locally students will find two nationally known art museums, the New Britain Museum of American Art and the Wadsworth Atheneum in Hartford. Area theatres include the Hartford Stage Company, the New Britain Repertory Theatre, the Goodspeed Opera House in East Haddam and the Bushnell Memorial Auditorium in Hartford which provides a variety of music, drama and dance offerings.

ACADEMIC STANDARDS AND REGULATIONS

Average Program

An average study program for a Central Connecticut State student in good standing is considered to be 15 to 17 credits per semester of academic work, depending on classification and major.

A full-time student must carry a minimum of 12 credits per semester. Exceptions to this policy are permitted only through approval of the academic dean or Vice President for Student Affairs and Dean of Students.

Students who fall below the 12-hours load during a semester will be classified as part-time students in the College of Continuing Education and will be charged Continuing Education fees.

Undergraduate students are expected to invest a minimum of four hours per week per credit hour, including class time, for courses which meet for a full semester. For courses which meet for a shorter duration, a corresponding increase in the time invested is expected.

Classification

Membership in a class is determined solely by total earned credits as follows:

First-year	0-30 credits
Sophomore	31-60 credits
Junior	61-90 credits
Senior	91+ credits

Grading System

Central Connecticut State uses the letter grading system as follows: A, superior; B, above average; C, average; D, passing but below average; and F, failure. A grade of INC may be recorded, at the discretion of the instructor, for a course in which a student, because of circumstances beyond his or her control, has not completed certain work or has been absent from the final examination. An INC not changed to another grade by the instructor within the first eight weeks of the subsequent major semester will be changed to an F. Responsibility for removing an INC within this time limit rests with the student.

Grade-Point Average—For computing grade-point average, grades are evaluated as follows: for each semester hour of credit: A, 4.0 quality points; A-, 3.7 quality

points; B+, 3.3 quality points; B, 3.0 quality points; B-, 2.7 quality points; C+, 2.3 quality points; C, 2.0 quality points; C-, 1.7 quality points; D+, 1.3 quality points; D, 1.0 quality point; D-, 0.7 quality points; and F, no quality points.

For example, a student receives an A in two courses one carrying 3 credits and one carrying 1 credit; a B in a 3-credit course; a B- in a 3-credit course; a C- in a 2-credit course; D in a 3-credit course; and an F in a 2-credit course. The grade-point average is computed as follows:

A or 4 quality points per hour x 4 credits	=	16 quality points
B or 3 quality points per hour x 3 credits	=	9 quality points
B- or 2.7 quality points per hour x 3 credits	=	8.1 quality points
C- or 1.7 quality points per hour x 2 credits	=	3.4 quality points
D or 1 quality point per hour x 3 credits	=	3 quality points
F or 0 quality points per hour x 2 credits	=	0 quality points
17 credits for a total of 39.5 quality points		

To calculate this student's semester grade-point average, the quality point total is divided by the total number of credits taken: $39.5 \div 17 = 2.32$.

The cumulative grade-point average (CGPA) for a student's record is determined by adding the credits taken and dividing this total into the total number of quality points. The cumulative grade-point average indicates the academic record of the student for the time enrolled at the University.

Good Standing—To remain in good standing students must maintain cumulative grade-point averages no lower than these minima:

(1-18 credits)	1.50
(19-36 credits)	1.60
(37-53 credits)	1.80
(54-69 credits)	1.90
(70- Graduation)	2.00

Students are expected to strive for the highest cumulative grade-point averages possible. Those who fall below the minimum averages listed above will be placed on probation or dismissed from the University. (Probationary status is limited to one semester.)

All courses taken at Central Connecticut State, including summer courses, are included in calculating the student's cumulative GPA. Courses taken at other institutions are not included in the student's Central Connecticut State GPA.

Probation—Students who fall below good standing but not below the following minima will be granted probation for one semester only:

1-18 credits	1.00
(1st semester first-time students only)	
1-18 credits	1.40
19-36 credits	1.50
37-53 credits	1.70
54-69 credits	1.80
70+ credits	1.95

Transfer students who fall below good standing at the end of their first semester but attain at least 1.50 will be placed on probation for the following semester regardless of total credits taken.

Students who are placed on academic probation are encouraged to meet with their academic dean. A student whose grade-point average falls below the minima for probation, or who is already on probation and does not achieve good standing, will be academically dismissed.

Academic Dismissal—An academically dismissed student may enter the College of Continuing Education as a **non-matriculated** student and seek to bring the cumulative grade-point average back to the good standing level.

Also, an academically dismissed student may petition the dean of the school the student is attempting to enter for **reinstatement on probation**. Normally, a student must wait at least one semester before being considered for reinstatement. The cumulative average earned at Central Connecticut State will not be affected by grades earned at other colleges.

After re-attaining good standing as a result of work in the College of Continuing Education, a student may request readmission to Central Connecticut State on a full-time or part-time basis. Consultation with the Admissions Office concerning deadline for reactivation is advised.

Students concerned about their academic progress should consult their academic adviser.

Honor Requirements

Dean's List:

Full-time students. Dean's list recognition for a semester is granted to students who carried at least 12 academic credits, earned a 3.50 GPA, and did not have any "Incompletes" for the semester at the time grade reports were issued.

Part-time matriculated students who have earned a minimum of 12 semester hours for the academic year, and who have achieved a 3.50 cumulative average for fall and spring semesters of that school year, and have no "Incompletes" listed on their record are eligible for spring semester Dean's List honors.

Graduation Honors for baccalaureate degree:

Cumulative Grade Point Average

Cum laude	3.50-3.69
Magna cum laude	3.70-3.89
Summa cum laude	3.90-4.00

For these honors students must earn a minimum of 62 credits in residence at Central Connecticut State. Graduation honors are awarded on cumulative earned G.P.A. as of the semester preceding graduation.

Graduation Standards

For graduation a student must maintain a minimum cumulative grade-point average of 2.00, and receive grades of C- or better in all courses required for the major, minor or concentration with a minimum cumulative grade-point average of 2.00 in the major, minor or concentration.

Residence Requirements for Degree—A minimum of 45 credits "in residence" is required for a bachelor's degree. Students transferring from any college are required to take at least 15 credits in their major field and 9 credits in their minor/concentration field at Central Connecticut State. Major and minor/concentration minimums are included in the 45-credit residence requirement. "In residence" means attending classes conducted on campus or under supervision of Central Connecticut State University.

Programs in the **School of Business** require that students must complete at Central Connecticut State:

1. At least 24 credits in the business common core and major requirements combined, AND
2. At least 9 credits in their major program as it is defined in the University catalog (i.e., Accounting, Finance, Management, Marketing, Management Information Systems).

In no case will a degree be granted unless a student is matriculated for a minimum of one year at the time of graduation.

Application for Graduation—A graduating student must file an Application for Graduation in the Office of the Registrar. Those expecting to complete degree requirements in May or August must file by November 1, and those completing in December by May 1. Teacher trainees must file at the same time, in the Registrar's Office, an Application for Teacher Certification.

Second Degree Policy

A student who has already completed a bachelor's degree may be admitted to Central Connecticut State University for a second undergraduate degree or a second undergraduate major within the student's original degree program.

A transfer student (whose earlier degree is not from CCSU) must satisfy all degree, major, minor/concentration, general education and residence requirements. Transfer students are required to have a minimum of 45 credits at CCSU in order to receive a bachelor's degree.

A student who already holds a bachelor's degree from CCSU may complete a **second major** within the original degree program. Although there is no minimum credit hour requirement for a second major, all curriculum requirements in effect at the time of re-admission must be completed. Upon completion the student will receive only an additional notation on the transcript; additional diplomas will not be printed and students will not participate in commencement ceremonies. Students in this category should inform the Registrar's Office of their intentions soon after re-admission.

A student who already holds a bachelor's degree from CCSU and wishes to complete a second degree, may do so by completing all curriculum requirements in effect at the time of re-admission, with a minimum of 30 new credits. If all curriculum requirements are met, and the 30-credit minimum has not been attained, the remaining credits shall consist of additional directed electives chosen by the department. When these new degree requirements are met, the student will be issued another diploma and will be entitled to participate in commencement ceremonies.

Registration

Continuing students register during their current semester for the semester ahead.

Adding a Course—Students may add courses on a space-available basis during the first four days of the semester.

Dropping a Course—Dropping courses will be allowed up to the end of the chronological mid-point in the course being attempted. Courses dropped by the deadline do not appear on the student's transcript. Forms are available in the Registrar's Office.

Withdrawal from Courses—After the deadline for dropping courses has passed (mid term), withdrawal from a course may be granted and recorded on the student's permanent record as "W" if extenuating circumstances are found to justify withdrawal. Poor academic performance is not considered an extenuating circumstance.

Withdrawals are initiated with the student's academic dean and require the signatures of the instructor, the chairperson of the department offering the course, and the dean of the school offering the course. A grade of "W" does not affect the student's grade point average.

If a student stops attending and fails to officially withdraw from a course, a grade of "F" will be recorded on the student's record.

Pass-Fail Option—A limited pass-fail option in courses not required for the major, minor, concentration or general education program is available at the University for students who have completed at least 34 credits. Intent to take a course pass-fail must be filed in the Registrar's Office in the first five days of the semester. Contact the Registrar's Office for more information.

Audit Option—Students are permitted to audit courses provided they are taking a minimum of 12 credits in addition to the courses audited. Intent to audit a course requires the written approval of the instructor and must be filed in the Registrar's Office in the first five days of the semester. Courses taken on an audit basis do not affect grade point average and do not apply toward any graduation requirement. The Registrar's Office has details.

Eligibility for Extra Courses—A student who wishes to register for more than the customary semester program of academic work should apply in writing to the appropriate academic dean at least one week prior to registration for the semester in which the additional course is to be taken. Credit overload forms are available in the Registrar's Office. A full-time student may take 12 to 18 semester credits without special permission. Students wishing to take 16-week courses along with student teaching must complete the credit overload form.

In general, the only applications approved are from students whose cumulative grade-point average is 2.50 or above, or whose average for the preceding semester is at least 3.00. No student will be permitted to take more than the normal program of study in the first semester.

Graduate Courses—Undergraduate students who desire to enroll in graduate courses are required to have a 2.70 GPA and senior standing. Students are also required to obtain the written permission of their adviser, chairperson of the department offering the course, and the graduate dean prior to registration. The necessary form is available in the Graduate Office and Continuing Education.

Repeat Courses Policy — A student may repeat a course only when the grade in that course is lower than "C." The most recent credits, whether the grade is higher or lower than previous grades issued, are applied to the degree requirements. The transcript must show the original and repeated courses, all of which are used to calculate the GPA.

Non-Credit Courses—Non-credit courses are offered by the College of Continuing Education within its academic and community service programs.

The symbol "S" on the transcript will indicate satisfactory completion of a non-credit course. The symbol "U"

will indicate unsatisfactory performance or non-completion of the course.

Acceptance of Non-traditional Credit

Central Connecticut State recognized that many valid learning experiences occur outside the traditional classroom. CCSU accepts from matriculated students the following types of non-traditional credit up to a maximum of 30 semester hours of credit except for established special programs. When such credit is awarded, it is entered on the transcript but the grade is not included in the University grade-point average. Students should be aware that in all the instances described below, the rules for granting of credit for non-traditional learning may vary among academic schools and departments at CCSU depending on the rules of external accrediting agencies and in accordance with departmental standards. Students should direct questions to the department chair.

Advanced Placement: The University accepts for college credit advanced placement courses taken in high school under the auspices of the College Entrance Examination Board's Advanced Placement Test Program provided the student achieves a minimum score of 4 on the test. Official score reports are requested by the Registrar's Office.

Credit for Standardized Examinations: Central Connecticut State students may earn up to 30 credits by examination from the College Level Examination Program of the College Entrance Examination Board (CLEP and DANTES) or any nationally standardized examination. A student is permitted one trial for each examination and must achieve a score equal to, or higher than, the national norm for that particular examination to receive credit. Information about which examinations are approved for departmental credit and minimum score requirements is available from the Office of the Registrar. Official score reports are required by the Registrar's Office.

Credit for non-collegiate training programs: Many businesses and industries, and other non-accredited institutions provide formal training for which some academic credit may be awarded. Central Connecticut State University will follow ACE recommendations on the acceptance of this credit as published in *The National Guide to Educational Credit for Training Programs*. CCSU also accepts credit for programs conducted by non-collegiate organizations not evaluated by ACE, according to specific local agreements which comply with Board of Governors for Higher Education regulations. Application of credit as it relates to the student's CCSU degree requirements will be determined by the Registrar in conjunction with the student's major department. Official transcripts, diplomas or certificates are required. If there is not an ACE recommendation or existing local agreement for the training program, refer to "Credit for life or work experience" below.

Credit for life or work experience: While Central Connecticut State itself does not evaluate life or work experience, the University will accept such credit as awarded by other regionally accredited colleges and universities, to the extent that it is applicable to the student's degree program and providing it does not exceed 30 credits. Matriculated students who believe they are eligible for such credit are encouraged to contact Charter Oak State College.

Placement Testing and Remedial Courses

All entering freshmen are required to take placement examinations in English, mathematics and foreign language prior to registration in order to determine their eligibility for ENG 110 (English Composition) and appropriate mathematics and foreign language courses. Entering students need not take the English placement exam if the English Department or Admissions Office has received their TSWE score from the SAT. The foreign language placement exam is not required of students who have successfully completed three years of a single language in high school. (The high school transcript must be received by the Admissions Office.)

Beginning in the fall semester 1992, remedial programs, 099 classes in Math and English, will be counted in determining full-time load status for students enrolled in those sections. In the computation of the credit load, each hour of instruction would be counted as one hour of credit. **NO REMEDIAL COURSE WILL BE COUNTED FOR ACADEMIC CREDIT.**

The University reserves the right to deny enrollment in any course to students who do not possess the appropriate skills or knowledge.

Transfer students also are required to take the placement tests unless they meet the following conditions:

- Students who transfer credit for ENG 110 or have completed more than 60 credit hours are exempt from the English placement exam.
- Students receiving transfer credit for ECM 099, MATH 101, 115, 121, 122, 125, 131, or a 200-level calculus course need not take the Mathematics Placement Exam (MPE). Students with transfer credit for MATH 103, STAT 104 and/or 105, ONLY, must take the Mathematics Placement Exam. Students receiving credit for a "math elective," or any other mathematics course, should contact the Mathematical Sciences Department on the need for the MPE.
- The foreign language requirement did not apply to transfer students until fall 1992.

Students planning to study French, Italian or Spanish must also take a placement examination for enrollment in the appropriate level course.

Placement testing dates are published on a regular schedule, and notices are sent to admitted students. Students transferring from other campuses of CSU should request forwarding of their Mathematics Placement Exam to Central Connecticut State's Mathematical Sciences Department.

Mathematics Placement Examination — The Mathematics Placement Exam (MPE) is administered to all entering and transfer (when appropriate) students, both full- and part-time. There is no passing or failing grade on this examination — its only purpose is to determine the student's background, for placement purposes, in mathematics. It is given a minimum of six times a year (dates/times available from the department). A student may take the MPE any number of times under the following conditions: a) there must be at least one semester gap between each sitting for the exam (e.g. a student taking the exam during the summer is next eligible to take the exam during the winter intersession), and b) since the purpose of the exam is initial placement, once a student has started his/her mathematics course sequence, he/she is no longer eligible to take the exam. While the results of the exam are deemed to be valid for the career of the student while at Central Connecticut State, practical experience indicates that the mathematics sequence/courses should be started within one year of taking the MPE. The examination is provided free of charge as part of the department's commitment to the quality of its course offerings.

State University Student Interchange—Full-time students at Central Connecticut State may take courses not available on campus at one of the other Connecticut State Universities with grades for these courses being treated as though earned at Central Connecticut State.

Advance approval to take such courses during the academic year is required. Such students will continue to be registered at Central Connecticut State, to which all tuition and fees will be paid.

Attending Other Institutions—Students enrolled at Central Connecticut State who wish to take courses at other accredited institutions will not receive transfer credits unless prior approval in writing is obtained from the Registrar's Office. Forms for requesting approval to take courses elsewhere are available in that office.

Declaration of Major

A student should select a major after consultation with an adviser. Forms to declare the major are available in the Registrar's Office. See requirements for majors under separate departmental listings.

Change of Major or Degree Objective—To change or declare a degree program, major, minor or concentration, a student must initiate a Major and Program Change Form in the Registrar's Office, obtain the necessary signatures and return it to that office.

Admission to the Professional Education Program—See School of Education and Professional Studies.

Course Substitution—Departmental chairpersons may approve the substitution of one course for another within the major, minor or concentration. The student obtains the appropriate form from the Registrar's Office, has it signed by the chairpersons involved and submits the completed form to the student's academic dean.

Withdrawal from the University

A full-time student wishing to withdraw from the University must confer with the Associate Dean of Finance and Administration (Davidson Hall 109) and have the appropriate forms completed and approved by that office **no later than four weeks before the last day of the final examination period**. The dean will assist in filing the form necessary for withdrawal.

Withdrawals after this date will be permitted only under extenuating circumstances and will require consultation and approval of the Associate Dean of Finance and Administration.

Readmission is contingent upon the student's academic standing at the time of re-entry. The student must complete a reactivation form with the Admissions Office to initiate readmission.

Other Regulations

Attendance—Regular class attendance is expected by the University. The following attendance regulations are in effect:

- A student is responsible for class attendance although each instructor should establish his/her policy and inform the class.
- A student absent from class for five consecutive days or less should, upon return, explain the absence to the instructor.
- A student, absent for more than five consecutive days for medical reasons, should notify the University Health Center in advance of return. On return, the student obtains a form from the Health Center to show the instructor. If absent for non-medical reasons, the student notifies the Office of Student Affairs, which notifies the instructor.

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- Absences for official University trips to conferences, intercollegiate athletic events, musical performances and other events are authorized in advance by the Office of Student Affairs.
- Make-up work is the responsibility of the student.

Eligibility for Extra-Curricular Activity—A full-time undergraduate student is eligible for participation in, election and/or appointment to committees and recognized Central Connecticut State student organizations, and for participation in extracurricular activities such as intercollegiate athletics, band and theatre, provided the student is matriculated and is not under disciplinary sanction prohibiting same.

This is a minimum requirement for the University and does not replace any conditions established by individual organizations.

Transcript Policy—A University transcript is a complete unabridged academic record, without deletions or omissions, providing information about a student from one institution to another. Central Connecticut State issues only official transcripts.

An official transcript includes the signature of an authorized official and bears the legal seal of the University. All transcripts cost \$3. No transcript is issued without the student's written request.

Change of Address—A student must notify the Registrar's Office of a change of address. Students living off campus and not at their permanent addresses should register their local address in the Residence Life Office.

Public Access to Student Records

In accordance with appropriate federal and state laws, the University has designated certain types of student information as public or "directory" information. While the University respects the student's right to privacy and will do its best to protect that privacy, such information may be disclosed. The following is directory information: Student's name, address, phone number, dates of attendance, class standing, academic major, and degree(s) earned. Additional information is also deemed directory information, including participation in officially recognized activities and sports, weight and height of members of athletic teams, and awards received.

Currently enrolled students have the right to request that the University not release address and phone information to individuals or organizations outside the University (though we are required to provide information to organizations which have provided the student any type of financial aid, including loans). A student who wishes to have his/her address and phone number restricted should contact the Registrar's Office. Such protection is provided for currently enrolled students only.

The University assumes that failure on the part of any student to specifically request withholding of certain directory information indicates approval of disclosure.

ACADEMIC PROGRAMS

The University offers undergraduate programs in liberal arts, teacher education, professional nursing, technology and business administration leading to degrees in Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science, Bachelor of Science in Nursing, Bachelor of Science in Engineering Technology, and Bachelor of Science in Industrial Technology. A summary of these programs appears on the following pages of this section.

These academic programs are offered in the University's five schools: The School of Arts and Sciences, the School of Business, the School of Education and Professional Studies, the School of Technology and the School of Graduate Studies. Courses applicable to most degree programs are also offered in the College of Continuing Education and the Summer Session.

Certain new or complex courses of study are listed elsewhere under the heading "Special Programs."

At the graduate level, Central Connecticut State offers programs leading to Master of Arts and Master of Science degrees and the Master of Science in Organization and Management as well as sixth-year programs. Consult the School of Graduate Studies section of the catalog for more information.

Requirements for Bachelor's Degree Programs

The General Education program is required of all students. A total of 62 credits of General Education studies must be completed as part of all baccalaureate degree programs. Six credits must be taken in Modes 2-8, three credits in Mode 1, six credits in Areas A and C, three credits in Area B and two credits in Area D. See the General Education section following.

A **Major**, or primary field of study, is required of all students. Certain majors, leading to the B.S. degree, are certifiable for teaching by the Connecticut State Board of Education. Other B.S. programs are not certifiable. B.A. majors in the liberal arts program are not certifiable for teaching. Requirements for the majors are listed individually under the appropriate schools.

A **Minor or Concentration**—a secondary field of study—is required with all majors except those specifically noted in the individual program listings. Minors are certifiable for teaching by the Connecticut State Board of Education and are taken only in conjunction with certifiable majors in the B.S. program. Concentrations are not certifiable and may be taken in conjunction with either B.S. or B.A. majors. Students should consult with the chairperson of their major department on minor and concentration requirements.

In addition to these requirements, most bachelor's degree candidates are able to include a number of free elective courses in their programs.

Business Credit Towards Non-Business

Degrees — No more than 30 credits of business courses may be applied to a degree program other than a business degree.

Bachelor's degree candidates must complete the following total number of credits:

B.A.	122
B.F.A.	122
B.S. (Teacher Education)	130
B.S. (Business Administration)	122
B.S. (Computer Science and Chemistry)	122
B.S.N. (Nursing)	123
B.S.E.T. (Engineering Technology)	130
B.S.I.T. (Industrial Technology)	122

General Education

In addition to offering baccalaureate degrees, Central Connecticut State aims to provide students with the basic foundation for life-long development as rational members of society, to awaken in them the pleasures of intellectual support, and to elevate their aesthetic sensibilities. This commitment to personal development depends heavily on the acquisition and expansion of formal and tacit knowledge, intellectual processes and techniques. The General Education program is dedicated to this end.

The General Education program seeks to develop in all students skills in communication, an understanding of the cultural, literary, historical, behavioral, artistic and scientific achievements of the past, and an awareness of the various modes of thought which have produced these achievements. The modes and skill areas are indicated in the organization of the General Education curriculum.

General Education Program

A total of 62 credits of General Education studies must be completed as part of all baccalaureate degrees. Credits must be taken in each of eight modes and four areas as follows:

Modes of Thought

- | | |
|---|-----------|
| 1. Philosophical/Religious | 3 credits |
| 2. Mathematical/Logical
(One MATH or STAT required) | 6 credits |
| 3. Literary | 6 credits |
| 4. Artistic | 6 credits |
| 5. Historical
(No more than one non-history course may be taken in Mode 5) | 6 credits |
| 6. Behavioral | 6 credits |
| 7. Social Scientific | 6 credits |
| 8. Natural Scientific
(At least 3 credits in a laboratory science is required ¹) | 6 credits |

Areas

- | | |
|---|-----------|
| A. Communication Skills
(ENG 110 is required ²) | 6 credits |
| B. Foreign Language/
International
(A second foreign language course would count under Area A or C) | 3 credits |
| C. Supplemental
(Specifically approved courses in business, education, technology and/or any course in the above Modes or Areas) | 6 credits |
| D. Physical | 2 credits |

Total 62 credits

A list of courses applicable to each Mode and Area will appear at the start of the Course section of this catalog. Where appropriate, courses will also bear a modal number or area letter in the description.

All courses required by the major/concentration with modal and area designation may be credited toward both the General Education requirements and major/concentration, up to a maximum of 6 credits under any subject label (e.g., CS, MATH, ENG, etc.)

Writing Requirement

Where appropriate to subject matter, methodology and class size, all courses designated for General Education, in particular courses in literature, philosophy, the humanities, history and the social and behavioral sciences, will require writing, including assigned papers and essay examinations.

Foreign Language Proficiency Requirement

Proficiency in a foreign language must be demonstrated before graduation from Central Connecticut State. This requirement may be met by 1) three years of one foreign language at the high school (9-12) level; 2) demonstrated elementary proficiency, by completing a second-semester-level Central Connecticut State course (112 or 114) or passing a standardized examination, or 3) completing two college-level courses in one foreign language.

International Requirement

In view of the increasing relevance of the global context to the future of our students, and their need for greater understanding of the world around them, 6 credits designated "International" are required as part of their General Education program. Courses designated "International" deal primarily with modern countries other than the United States, or essentially with the contemporary international aspects of disciplines under consideration. Courses with subject matter dealing with the past must extend substantially at least into the 19th century. International courses may apply to Area B or modes 1, 3, 5, 6 or 7. International courses are listed with all other general education courses on pages 87-92.

¹ When the credits for two courses exceed 6 credits, the excesses may be ascribed to Area C.

² An acceptable CCSU English Placement Test score or an appropriate equivalent is required to be eligible for ENG 110. See under Skills Testing and Remediation Policy.

The requirement of ENG 110 may be waived for a student by the English Department, but the 6-credit requirement will not be reduced.

Students who have not completed their ENG 110 requirement prior to achieving 61 credits are required to take ENG 202 instead.

ACADEMIC PROGRAMS — Undergraduate

FIELD OF STUDY	MAJOR AND DEGREE		MINOR	CONCENTRATION	
	All programs Except Teaching 122 Credits	Teaching Programs 130 Credits		Teaching Programs	With BS
Accounting	BS				
African Studies			Yes	Yes	Yes
African-American Studies			Yes	Yes	Yes
Anthropology	BA		Yes	Yes	Yes
Archeology			Yes	Yes	Yes
Astronomy			Yes	Yes	Yes
Art	BA	BS	Yes	Yes	Yes
Biology	BA	BS	Yes	Yes	Yes
Bio. Environmental Science	BA				
Bio.: Medical Technology	BA				
Business			Yes	Yes	Yes
Chemistry	BS	BA	Yes	Yes	
Chem.: Biology	BS				
Chem.: Business	BS				
Chem.: Clinical	BS				
Chem.: Computer Science	BS				
Chinese			Yes	Yes	Yes
Communication	BA		Yes	Yes	Yes
Computer Science	BS/BA (Interdisciplinary)		Yes	Yes	Yes
Corrections			(Transfer Credits Accepted)		
Criminal Justice			Yes	Yes	Yes
Gross Cultural Comparison			Yes	Yes	Yes
Drug and Alcohol Rehab.			(Transfer Credits Accepted)		
Earth Science	BS	BS	Yes		
East Asian Studies			Yes	Yes	Yes
Economics/Economic-Oper. Res.	BA		Yes	Yes	Yes
Elementary Education			(Students major in a subject matter or an interdisciplinary major. Contact departments for details)		
Engineering	(First two years at CCSU)				
Engineering Technology	BS*		(Various specializations)		
English	BA	BS	Yes	Yes	Yes
Euro. Community/West. Euro. Studies			Yes	Yes	Yes
Entrepreneurship	BS				
Finance	BS				
French	BA	BS	Yes	Yes	Yes
Geography	BA	BS (Elementary)	Yes	Yes	Yes
Geog.: Planning	BA		Yes	Yes	Yes
Geology			Yes	Yes	Yes
German	BA	BS	Yes	Yes	Yes
History	BA	BS	Yes	Yes	Yes
Industrial Technology	BS		(Various specializations)		
International Business	BS				

FIELD OF STUDY	MAJOR AND DEGREE		MINOR	CONCENTRATION	
	All programs Except Teaching 122 Credits	Teaching Programs 130 Credits		Teaching Programs	With BS
International Studies	BA	BS			
Italian	BA	BS	Yes	Yes	Yes
Journalism					
Latin American Studies			Yes	Yes	Yes
Linguistics			Yes	Yes	Yes
Management & Organization	BS				
Mgt. Info. Systems	BS				
Marketing	BS				Yes†
Mathematics	BA	BS	Yes	Yes	Yes
Math. Actuarial Science	BA				
Math. Operations Research	BA				
Math. Statistics	BA				
Meteorology			Yes	Yes	Yes
Music	BA	BS	Yes	Yes	Yes
Nursing	BSN*				
Philosophy	BA		Yes	Yes	Yes
Philosophy: Applied Ethics	BA				
Physical Anthropology			Yes	Yes	Yes
Physical Education	BS	BS	Yes	Yes	Yes
Physics	BS	BS	Yes	Yes	Yes
Political Science	BA		Yes	Yes	Yes
Pol. Sci.: Public Admin.	BA				
Psychology	BA	BS (Elementary)	Yes	Yes	Yes
Religion			Yes	Yes	Yes
Russian			Yes	Yes	Yes
Science			Yes	Yes	Yes
Science: General Science	BS		Yes		
Science: Physical Science	BS				
Science: Environ. Interpretation	BS				
Social Science	BS				
Sociology	BA		Yes	Yes	Yes
Social Work	BA				
Slavic-East European Studies			Yes	Yes	Yes
Spanish	BA	BS	Yes	Yes	Yes
Special Education	BS				
Special Studies	BA	BS			
Statistics			Yes	Yes	Yes
TESOL**			Yes		
Technology Education	BS				
Theatre	BA/BFA		Yes	Yes	Yes
Women's Studies			Yes	Yes	Yes
Writing			Yes	Yes	Yes

SCHOOL OF ARTS AND SCIENCES

George A. Clarke, *Dean*
June B. Higgins, *Associate Dean*
Phone: 827-7215

The School of Arts and Sciences offers programs leading to the Bachelor of Arts degree, the Bachelor of Science degree and the Bachelor of Fine Arts degree. These programs are designed to provide a broad liberal education and, in the case of particular bachelor of science programs, to prepare students for teaching careers. The programs also provide appropriate bases for graduate work in a number of academic fields and further professional studies, such as law and medicine.

The School of Arts and Sciences offers programs in the fine arts, the humanities, mathematics, computer science, the natural sciences, and the behavioral and social sciences.

Certain of the following programs are marked "certifiable for teaching." These programs all have additional requirements which are found in the catalog description of the School of Education and Professional Studies.

Students planning majors, minors or concentrations must consult with department chairpersons or directors and be assigned a faculty adviser.

Anthropology

D. A. Kideckel, *Chairperson*; C. E. Eber, K. L. Feder, M. A. Park. (*Dept. phone 827-7484 or 827-7459*)

Anthropology means "the study of people." It assumes that generalizing about human life takes an integrated study of human biology and culture, past and present, and simple and complex lifeways. Anthropology is comprised of four sub-fields. Cultural anthropology describes and explains variation in human cultural and social types. Physical anthropology explains the physical nature and development of humankind. Archaeology considers past human life and how societies grow, change and become extinct. Linguistics examines human communication processes.

The Anthropology major at the University provides students with a broad social and behavioral science background and prepares the student for a range of careers, from public service to marketing and international management. The department also offers concentrations in cultural anthropology, archaeology and physical anthropology. These programs give the student a holistic and cross-cultural perspective to complement most majors.

The Anthropology Department has a number of special programs and resources. A biennial summer archaeological field school in association with the department's Farmington River Archaeological Project provides experience in archaeological excavation and analysis. The microfiche Human Relations Area Files in the Burritt Library Serials Department is an easy-to-use system for cross-cultural research. We have an extensive collection of human skeletal materials and fossil casts for education in physical anthropology.

Major in Anthropology, B.A.

39 credits in Anthropology and related disciplines, including ANTH 140, 150, 160, 225, 375, 430; one additional upper-level course in physical anthropology, one in archaeology, and two in cultural anthropology. Individual programs will differ according to the particular needs of the student and must be developed jointly with the student's adviser.

Concentration in Anthropology, B.A. or B.S.

18 credits, including ANTH 140, and 15 credits in Anthropology. Individual programs will differ according to the particular needs of the student and must be developed jointly with the student's adviser.

Concentration in Archaeology, B.A. or B.S.

24 credits including ANTH 140, 150, 318, 320, 329 and 450, with additional courses selected from ANTH 210, 265, 322, 375 and 460. For Anthropology majors, six hours of this concentration may be applied to the major.

Concentration in Physical Anthropology, B.A. or B.S.

18 credits including ANTH 140, 160, 265, 365 and 465, and one from ANTH 270, 325, 345, BIO 111, ESCI 116 or PSY 452. For students also majoring in Anthropology, three hours of this concentration may be applied to the major.

Concentration in Cross-Cultural Comparison, B.A. or B.S.

18 credits including ANTH 140, 225, 430, one from ANTH 270 or 325, and one from ANTH 422, 426, 428, 475, plus one course from ANTH 250, 320, 350, 370, 339, 440, 445. For students also majoring in Anthropology, three hours of this concentration may be applied to the major.

Art

M. R. Cipriano, *Chairperson*; M. Bassett, M. H. Bornstein, J. Buxton, S. Fafunwa, F. Hentschel, W. A. Kendra, E. Langhorne, R. Siporin, M. Strathy, R. Todd, C. Venti, S. Vial. (*Dept. phone 827-7326*)

Major in Art, B.A.

39 credits in Art as follows:

- a. Foundation (18 credits) including ART 112, 113, 120, 124, 130 and 230.
- b. Specialization (21 credits), in either —
 - 1) Painting: ART 252, 352, 353, 431, 414, 416, 465
 - 2) Printmaking: ART 340, 343, 344, 414, 416, 445, 465
 - 3) Sculpture: ART 261, 361, 362, 414, 416, 462, 465
 - 4) Ceramics: ART 260, 360, 414, 416, 460, 465, 468
 - 5) Graphic Design: ART 222, 233, 322, 323, 431, 436, 438, plus 18 credits of electives with consent of adviser.
 - 6) Illustration: ART 222, 224, 324, 416, 424, 431, 432.

Concentration Options: Specialization without a concentration requires at least 12 additional credits in Art or major-related courses with approval of adviser; otherwise a concentration within another academic department is required.

Major in Art Education, B.S.

(Certifiable for K-12 teaching)

42 credits in Art, as follows:

- a. Required (24 credits), including ART 112, 113, 120, 130, 252, 261, and 6 credits in crafts, including ART 263.
- b. Electives (18 credits), may be chosen from the following areas, or a student may choose an emphasis in any one area. The areas are:

Area 1, Art History: ART 409, 410, 412, 416, 418, 490.

Area 2, Design: ART 120, 222, 322, 405, 421, 422, 436, 442, 447, 465.

Area 3, Printmaking: ART 340, 343, 344, 440, 443, 444, 445, 446, 465.

Area 4, Drawing and Painting: ART 230, 250, 252, 323, 324, 431, 432, 450, 465.

Area 5, Sculpture: ART 422, 462, 463, 465.

Area 6, Crafts: ART 260, 264, 360, 366, 460, 464, 465, 466, 467, 468.

In addition, the student must take 34 credits of professional education, including ART 200, 201, 300 and 401, EDF 401, EDSC 375 and 429, SPED 470 and EDSC 256.

Portfolio Requirement

All Art majors (B.A. and B.S. candidates including transfer and teaching certification students) must submit a portfolio of at least 10 works for consideration by the Art faculty. Students whose portfolios do not meet standards will be required to take supplemental courses. No student will be allowed to proceed on to a 300-level Art course without a successful portfolio review. Courses that require a portfolio review are marked with an asterisk in the Course Description section of this catalog.

Interdisciplinary Major — Fine Arts with Core in Art, B.S.

(Acceptable for certification in elementary education.)

39 credits. 21 credits in Art including ART 110, 120, 124, 130, 263, and 400-level Art History course; 3 credits from ART 230, 250, 252, 260, 261. 6-9 credits in Music are required, including MUS 170; 3 credits from MUS 177, 250, 251, 264, 350, 351 or 3 credits from 140, 141, 142, 143. 6-9 credits in Theatre are required from TH 111, 121, 151, 143 or 145, 373 or 374. 3-6 credits in Dance are required, including DAN 151 and 2-5 credits from DAN 152, 153, 157, 158, 275. Please consult with the School of Education and Professional Studies concerning additional education requirements.

Concentration in Art, B.S.

Majors in Secondary Education programs: 18 credits in Art are required grouped according to the recommendations of the Art Department.

Concentration in Art, B.A.

18 semester hours in Art are required, grouped according to the recommendations of the Art Department.

Concentration in Art History, B.A. and B.S.

18 credits in Art History (including ART 110 or both ART 112 and ART 113) are required.

Biological Sciences

L. M. Carluccio, *Chairperson*; D. R. Carter, R. L. Davis, D. J. DeNuccio, L. J. Gorski, S. L. Halkin, R. R. Hollander, M. A. Kapper, T. R. King, K. A. Martin, T. Mione, P. Osei, C. A. Penniman, R. E. Rollin, K. A. Wilson, R. P. Wurst.
(Dept. phone 827-7279)

The Biological Sciences Department has a full-time faculty representing the major specializations within the broad field of biological sciences. Copernicus Hall houses 13 laboratories for introductory and advanced undergraduate and graduate courses and research in biology.

The Department also has a wide range of modern research equipment and maintains specialized facilities including a greenhouse, apiary, orchard, herbarium, fossil-cutting room, electron microscopy suite, isotope laboratory, darkrooms, experimental gardens and controlled environment rooms.

Through the academic and extracurricular opportunities which the department offers, students are prepared to understand the living world and to enter various careers in biology.

Major in Biology, B.S.

(Certifiable for secondary teaching)

37 credits in Biology as follows: BIO 121, 122, 221 or 222, 226 or 227, 306, 316, 405, 411 and either 412 and 413 or 449 or 318 or 410, and Biology electives. Credit for both 412 and 318 is not allowed. In addition, the student must take CHEM 121, 122, 450 and 451; PHYS 121 and 122; SCI 417 and MATH 125.

For students contemplating graduate work a year of French or German is advised. A student who majors in Biology is not required to complete a minor but is urged to minor or concentrate in one of the other laboratory sciences or General Science.

Minor in Biology, B.S.

(Certifiable for secondary teaching)

20 credits in Biology is required including: BIO 121, 122, 221, 227 and 318. In addition, the student must take SCI 417, MATH 125 and CHEM 121. The department strongly recommends BIO 306.

Major in Biology, B.A.

(a) General Program

30 credits in Biology, as follows: BIO 121, 122, 306, 390, 411 and two courses chosen from among BIO 221, 222, 226 and 227, and 5-7 credits of Biology electives. In addition, the student must take CHEM 121, 122, 311 and 312; PHYS 121, 122 and MATH 125, and with an adviser's approval, either MATH 126 or STAT 215 or CS 113 or CS 213. Completion of a concentration is required and it is recommended that the student concentrate in one of the other laboratory sciences.

(b) Specialization in Environmental Science

61 credits of Biology and related sciences as follows: 31 credits in Biology including BIO 121, 221, 226, 316, 390, 405, 410, 434 and 468. In lieu of a concentration the student must take CHEM 121, 122, 311 and 312 or 450 and 451, 301, 406; PHYS 121 and 122; ESCI 121 and 123 or 450. In addition, MATH 125 is required and BIO 306 is strongly recommended. A search course in Mode 8 is not recommended.

(c) Specialization in Medical Technology

52 credits in sciences, including BIO 121, 122, 316, 318, 416 and 417; CHEM 121, 122, 301, 311, 312 and 454; PHYS 121 and 122. In addition, the student must take MATH 125 and complete as a senior a year of clinical training and courses in Medical Technology in an approved hospital, for which 30 hours of credit will be awarded. A concentration is not required. R. Wurst is coordinator for this program.

(d) General Program, B.S.

(Acceptable for certification in elementary education)

For course requirements, see General Program (a) above. No concentration is required. Please consult with the School of Education and Professional Studies concerning additional education requirements.

Major in Interdisciplinary Sciences with Specialization in Biology, B.S.

(Acceptable for certification in elementary education)

39 credits. For course listing, see major in Interdisciplinary Sciences, page 45.

Major in Interdisciplinary Sciences with Specialization in Environmental Interpretation, B.S.

(Acceptable for certification in elementary education)

50 credits. For course listing see major in Interdisciplinary Sciences, see page 45.

Concentration in Biology, B.A.

20 credits in Biology, including BIO 121 and 122. BIO 100, 111, 132 and 211 may not be counted toward a major, minor or concentration in Biology.

Chemistry

J. Mantzaris, *Chairperson*; J. V. Arena, T. Burkholder, C. A. Jones, A. W. Kozlowski, G. A. Page, T. D. Shine, R. Troy. (Dept. phone 827-7293)

The Chemistry Department has been approved by the American Chemical Society Committee on Professional Training. Students wishing to meet American Chemical Society certification requirements should consult with the chairperson.

Major in Chemistry, B.S.

(Certifiable for secondary teaching)

This program is designed for those students seeking state certification for teaching chemistry at the secondary level and includes a student-teaching component in the senior year at an area school.

36 credits in Chemistry, as follows: CHEM 121, 122, 301, 311, 312, 321, 322, 323, 402 and 460. In addition, the student must take BIO 121; PHYS 125, 126; SCI 417 and 420; MATH 121, 122 and 221, and 4 credits of science electives approved by the chairperson.

For students contemplating graduate work, a year of German or Russian is recommended. A student who majors in Chemistry is not required to complete a minor, but is urged to minor in General Science. MATH 222 is also recommended for students planning graduate work in chemistry.

Minor in Chemistry, B.S.

(Certifiable for secondary teaching)

18 credits in Chemistry, including CHEM 121, 122, 301, 311 and one Chemistry elective from courses numbered 300 and above. In addition, the student must take PHYS 121, 122; BIO 121; SCI 417 and MATH 121.

Major in Chemistry, B.S. (Non-Teaching)

(a) General Program

This program is designed for students wishing to go on to graduate-level studies in chemistry, or those who expect to enter professional chemistry at the bachelor's level.

40 credits in Chemistry, as follows: CHEM 121, 122, 301, 311, 312, 313, 321, 322, 323, 402, 432, 460, 462 and 472. In addition, the student must take PHYS 125, 126 and MATH 121, 122, 221, 222. Computer literacy and experience in the use of chemical literature are recommended. For students contemplating graduate study, a year of German or Russian is recommended. Completion of a concentration is required and it is recommended this be taken in a laboratory science or mathematics.

(b) Specialization in Clinical Chemistry (For a limited number of students, with approval of the director of the program.)

This program is designed for students wishing to work in a clinical chemistry laboratory.

48 credits in Chemistry, as follows: CHEM 121, 122, 301, 311, 312, 321, 322, 323, 402, 432, 454, 458, and 485 (topic as approved by adviser). In addition, the student must take PHYS 125, 126; MATH 121, 122, 221; and BIO 121, 316 and 318 (PHYS 331 may be taken in place of BIO 316). For students contemplating graduate study, a year of German or Russian is recommended. No concentration is required. MATH 222 is also recommended for students planning graduate work in chemistry.

(c) Chemistry-Business Specialization

This program is designed for students wishing to apply their chemistry background to the business management or marketing facet of the chemical industry.

40 credits in Chemistry, as follows: CHEM 121, 122, 301, 311, 312, 313, 321, 322, 323, 402, 432, 460, 462 and 472. In addition, the student must take PHYS 125, 126 and MATH 121, 122, 221, 222. In place of a concentration the following courses are required: ECON 200, 201; AC 201, 202; and either the Marketing or Management sequence. Students in the Marketing sequence must take MKT 303, 307, either MKT 304 or 413, and Law 401 or MGT 301. Students in the Management sequence must take AC 303, MGT 301, either MGT 305 or 307, and Law 401 or MKT 303. Computer literacy and experience in the use of chemical literature are recommended.

(d) Chemistry-Computer Science Specialization

A strong background in computer science has become increasingly important in chemical work. This program affords the student a measure of this needed background.

40 credits in Chemistry, as follows: CHEM 121, 122, 301, 311, 312, 313, 321, 322, 323, 402, 432, 460, 462 and 472. In addition, the student must take PHYS 125, 126 and MATH 121, 122, 221, 222. In place of a concentration, the following courses are required: CS 151, 152, 254 and one elective in Computer Science approved by the Department of Computer Science. Experience in the use of chemical literature is recommended.

(e) Chemistry-Biology Specialization

This program is designed for students who desire a broad background in chemistry and biology or are considering a health-related field upon graduation.

34 credits in Chemistry, as follows: CHEM 121, 122, 301, 311, 312, 321, 322, 402, 454 and elective(s). In addition, the student must take 27 credits in Biology, as follows: BIO 121, 122, 306, 411 and 11 credits chosen from BIO 316, 318 or 412, 410, 449, 463. Also required are PHYS 125, 126 and MATH 121, 122 and 221.

Interdisciplinary Major — Sciences with Specialization in Chemistry, B.S.

(Acceptable for certification in elementary education.)

39 credits. For course listing, see major in Interdisciplinary Sciences, page 45.

Concentration in Chemistry, B.S. (Non-Teaching)

21 credits in Chemistry, including CHEM 121, 122, 301, 311 and two Chemistry electives selected from courses numbered 300 or above.

Communication

R. M. Fischbach, *Chairperson*; S. S. King, Y. Ju, S. Mendez-Mendez, A. Moemeka, S. R. Olson, B. Sevitch, J. Parrish-Sprowl, D. Varan, C. White.
(Dept. phone 827-7491, 827-7492, 827-7840, 827-7071)

The Department of Communication offers courses leading to the Bachelor of Arts degree which are designed to challenge students interested in the study of human communication. Communication, broadly conceived, is the purposeful exchange of symbolic information. Communication viewed as human behavior can be examined both in terms of its process and its outcomes and effects. The program of study defines a range of communication problems; determines the appropriate method of inquiry; and searches for answers to the important questions involving the role of communication in individual relationships, in societal settings, in corporate structures and in global interdependence.

The major in Communication, B.A., consists of 39 credits in the department and related courses including COMM 140, 215, 230, 245, 301 or 302 or 303, and 400. Students must take a total of 21 credits from 300/400-level courses with a minimum of 9 credits from 400-level courses.

These courses are grouped according to certain emphases within the broad field of communication allowing the student the choice of an emphasis that is compatible with his or her aims and interest. These emphases are: (1) **culture and communication** for those students interested in intercultural communication; (2) **mass media** for students interested in careers in radio, television or film; (3) **promotion/public relations** for students who wish to develop communication skills for commercial as well as non-commercial employment in advertising or community services; (4) **political communication** for students interested in developing communication skills necessary for working in state or local government; (5) **organizational communication** for students interested in pursuing consulting or in serving as managers for private and public institutions; and (6) **interpreting for the deaf and hearing impaired** for students who will be working towards gaining knowledge and skills needed by interpreters to work in the professional community as well as educational settings. For students with specialized needs, an adviser-based program is another option. In addition to these educational and occupational opportunities, a student could choose to pursue directions which could lead to an advanced degree in any of these areas.

To be admitted to the Department of Communication major, a student must complete at least 30 hours of general education courses with a minimum grade point average of 2.0. Any student refused access to the major may appeal to a committee to be composed of faculty from the Department of Communication. This committee will de-

termine if the student with a below minimum grade-point average possesses a record which warrants special admission to the major.

Curriculum guide sheets listing recommended courses for each emphasis are available in the department. A maximum of 6 credit hours in related courses may be counted towards the major with permission of adviser and department chairperson. Signatures of approval are required prior to registering for these courses. In addition, completion of a concentration in a related field of study in another department at the University is required.

Concentration in Communication, B.A. or B.S.

21 credits in Communication, including COMM 115 or 140; 215; 230; and 12 credits in courses, 6 of which must be numbered 300 or 400.

Computer Science

C. L. Pelletier, *Chairperson*; F. Abdollahzadeh, J. M. Calvert, W. C. Jones, B. P. Kjell, A. Z. Leibowitz, C. W. Neville, I. Pevac, R. L. Thornton, N. Zlatareva.
(Dept. phone 827-7568)

The Department of Computer Science offers a program of study leading to a bachelor of science degree in Computer Science and an interdisciplinary program with Computer Science core. The Computer Science major is one of the first such programs offered in New England and is fully accredited by the Computer Science Accreditation Board (CSAB). Accredited programs must meet or exceed CSAB criteria for faculty, curriculum, laboratory and computing resources, students and institutional support. Central Connecticut State's Computer Science program is the first in the state to receive CSAB accreditation.

All Computer Science majors take a common core of courses covering program design, data structures, assembly language programming, digital design and systems programming. Five different emphasis areas are offered to focus on a particular area of the discipline. Topics courses, which allow the department's offerings to keep pace with the rapid advancement of computer technology, are offered for elective credit on a regular basis.

In addition to the regular course work, CS majors may participate in the cooperative education program. This program, open to juniors and seniors, allows the student to put her/his skills to use in a real life setting, receiving academic credit for work in a real-world environment. The interdisciplinary program provides a grounding in Computer Science, Mathematics and Natural Science, and allows the students to cap their program in any of these fields.

The computer facilities at the University include a VAX 9000-210, a VAX 7000-620, with numerous remote terminals in several clusters around campus and a lab of UNIX-based workstations support several CS courses. Several microcomputer labs — all of which are networked — connect over 100 IBM-compatible computers and 60 Macintoshes distributed around the campus. Plans are in the works to link the entire campus via Ethernet.

Central Connecticut State is linked to INTERNET, an international network of colleges, universities and research institutions.

Major in Computer Science, B.S.

(Non-Teaching)

69 credits. Core (21 credits): CS 151, 152, 253, 254, 354, 355, 376 and PHYS 338. Emphasis (15 credits): Completion of one of the following sequences together with at least one course from each of two of the remaining sequences — 1) CS 464, 465, 481, 2) CS 385, 485, 486, 3) CS 410, 420, 473, 4) CS 423, 462, 490, 5) CS 460, 463, 483. Electives (4 credits): Electives from other courses listed in the sequences above and CS 290, 300, 398, 407, 450, 495, 498, 499, PHYS 339, 340.

Mathematics and statistics (15 credits): MATH 122, 221, 218 and STAT 215 or 315. Science and quantitative methods (14 credits): One of the following sequences: BIO 121 and 122; CHEM 121 and 122, ESCI 121, 122, and 123; PHYS 125 and 126. An additional 6 credits in science and/or courses with a strong emphasis on quantitative methods is required. ECON 485, GEOG 478, PSY 221 and 222, SOC 222 and 450, and STAT 456 satisfy this requirement. Majors must take PHIL 242 as part of the General Education requirements (Mode 1).

Computer Science majors are not required to complete a concentration.

Concentration in Computer Science, B.A. and B.S.

18 credits as follows: CS 151, 152, 253, 254 and 4 semester hours of Computer Science electives which are applicable to the B.S. degree in Computer Science.

Interdisciplinary Major — Sciences with Core in Computer Science, B. S. (Elementary) or B. A.

39 credits as follows: 18-24 credits of Computer Science consisting of CS 151, 152, 253, 254 plus 4-10 credits in electives chosen from CS courses numbered above 300. 9-15 credits in mathematics chosen from MATH 121, 122, 203, 218, 221, 222, 228, 366, and 477. 3-9 credits in physics or earth science and 3-9 credits in chemistry or biology. Science courses must be laboratory courses.

Economics

R. R. Daigle, *Chairperson*; P. L. Altieri, K. H. Kim, C. L. Lawson, J. C. Loughlin, K. T. Pae, A. Papathanasis, A. J. Zottola. (Dept. phone 827-7626)

Major in Economics, B.A.

30 credits including ECON 200, 201, 300, 305 and 310. Three credits toward the 30 credits will be granted for either GEOG 344 or HIST 430 or 465. In addition the student must take MATH 125 and STAT 104, PHIL 120 or MIS 201.

Major in Economics, B.A. with Specialization in Operations Research

57 credits of Economics and related courses, including ECON 200, 201, 305, 460, 485, MATH 470, CS 151; and either ECON 300, 310, 311, MATH 125, 126, STAT 215, 216 (total 21 credits) or ECON 300, 310, MATH 121, 122, 221, 222, STAT 315, 416 and either MATH 321 or ECON 311 (total 27 credits). The remaining 9 or 15 credits may be elected from Economics courses acceptable for the B.A. Economics major (ECON 470 strongly recommended), MATH 140, STAT 455, 456, CS 152, 254, 450, 473; at least two of these courses must be labeled Economics.

A maximum of 3 credits may be waived from the requirements for this program upon completion of an appropriate cooperative work experience. No concentration is required for students choosing this major.

Concentration in Economics, B.A. or B.S., Secondary

18 credits as follows: ECON 200, 201 and 12 credits of electives in Economics. GEOG 344, HIST 430 or HIST 465 may be credited toward the concentration in the B.S. program.

English

L. Jestin, *Chairperson*; R. J. Baiera, S. Barnett, G. Belanger, D. Bentzion, R. L. Bonaccorso, A. Cannella, J. D. Conway, D. Cook, W. Cook, R. Dunne, D. R. Gallo, B. Galvin, G. Gigliotti, T. Hazuka, J. A. Heitner, A. M. Hirsh, D. Holt, B. H. Leeds, D. M. Lynch, K. M. Lynch, M. Manson, D. P. McDonough, M. Mentzer, A. G. Osborne, D. P. Shugert, J. Stygares, G. J. Tullai, G. J. Weinberger, J. Weinberger, W. Winsor. (Dept. phone 827-7556)

GENERAL PREREQUISITE

ENG 110 is a prerequisite for all other English courses.

Major in English, B.S.

(Certifiable for Secondary teaching)

42 credits in English, as follows: ENG 110, 200 or 400, 205, 206, 210, 211, 401, 420 and 492. In addition, 15 credits on the 300-400 level* as follows: Four courses

(12 credits) in British literature, one in each of the following areas--I. 700 A.D.-1660, II. 1660-1900, III. 1900-Present, IV. Major figure (Chaucer, Shakespeare, Milton); one course (3 credits) in American literature. Also, RDG 440 is required for certification.

Major in English, B.A.

39 credits in English, as follows: ENG 110, 205, 206, 210, 211, and one course from the following: ENG 200, 230, 400, 430, 431. In addition, 21 credits on the 300-400 level* as follows: four courses (12 credits) in British literature, one each in the following areas--I. 700 A.D.-1660, II. 1660-1900, III 1900-Present, IV. Major figure (Chaucer, Shakespeare, Milton); two courses (6 credits) in American literature — one in a period preceding 1865, one in a period following 1865; one course (3 credits) in world literature.

*There is one exception to this statement that the remaining 15 credits must be on the 300-400 level: ENG 220 may be taken as fulfillment of the appropriate area requirement. Also, if a student takes two major figure courses, the second may count as an area fulfillment: Chaucer or Shakespeare for Area I, Milton for Area II. Further substitutions within area requirements are permitted only with prior approval of the of the adviser and the department chairperson.

Major in English, B.S.

(Appropriate for certification in elementary education.)

39 credits as follows: Core (18 credits): ENG 205, 206, 210, 211, 491, 492; Linguistics (6 credits): ENG 230, 300; Composition (6 credits in one sequence): Expository Sequence, ENG 202, 401, or Creative Sequence, ENG 371 or 372, ENG 373 or 374, ENG 376, 377, or Journalism Sequence, ENG 235, 380; Oral Performance (3 credits): COMM 200 or ENG 270 or ENG 274; Literature (6 credits): Two 300/400-level courses in British, American or world literature (ENG 220 may be elected to fulfill 3 credits in this category).

Concentration in English, B.A. and B.S.

21 credits in English, as follows: ENG 110, 205, 210, and 12 credits of literature electives, with at least 9 credits on the 300-400 level.

Concentration in Writing, B.A. and B.S.

21 credits as follows: ENG 110, 230†, 401, and 12 credits elected from ENG 235, 236, 371, 372, 373, 374, 376, 377, 380, 381, 403; MC 207.

†Students wishing to specialize in Creative Writing should substitute ENG 260, 261 or 262 for ENG 230.

Concentration in Journalism, B.A. and B.S.

21 credits as follows: ENG 110, 235, 236, and 12 credits elected from ENG 380, 381, 412, 416, 418, 495.

Concentration in Descriptive Linguistics, B.A. and B.S.

21 credits as follows: ENG 200, 230, 400, 430, 431 and either a) 6 credits of a foreign language at the intermediate level; or b) CS 151 and 152; or c) SPED 106 and either EDEL 498 or ENG 490 (for independent study in manual sign systems).

Concentration in TESOL, B.S.

21 credits as follows: ENG 230, 200 or 400, 496, 497 and either a) 6 credits of foreign language at the intermediate level plus one of the following courses, or b) (for the student who is already competent in a foreign language) three of the following courses: ANTH 225, 250, ENG 430, 431, 498, HUM 490, SOC 231, 411.

Geography

J. N. Snaden, *Chairperson*; B. Carmichael, S. Chon, J. E. Harmon, T. J. Rickard, A. R. Smith.
(Dept. phone 827-7218)

The Geography Department is concerned with the science of location. Geography faculty teach students to use maps, air photos, computers and information about places in understanding how people use the land they live on and what makes that land different from other areas. Geography students learn about the nature of places, human impacts on environment and the proper use of the land. Career opportunities include travel and tourism, environmental protection, urban, regional and transportation planning, map making, site selection, area studies and computer applications.

Major in Geography, B.A. or B.S.

36 credits in Geography, as follows: A 21-credit basic core including GEOG 110 or 120; 3 credits in physical geography; 3 credits in cultural geography; 3 credits in geographic techniques; 3 credits in planning; and 6 credits in regional geography courses.

Also, completion of one of four programs as follows:

Environmental: 9 credits in physical geography; 9 credits in geographic techniques; GEOG 433; and GEOG 430 or a substitute course. 9 credits of this program may be used to fulfill the requirements of the core.

Techniques: GEOG. 256, 266, 276; 6 credits from other techniques courses; and GEOG 430 or a substitute course. 3 credits of this program may be used to fulfill requirements of the core.

Tourism: GEOG 290, 330, 434, 450, 452 and 454; GEOG 425 or GEOG 430 or a substitute course; and one elective geography course. 9 credits of this program may be used to fulfill core requirements.

General/Regional: 15 credits of Geography electives.

Geography Course Groups. Physical geography courses: GEOG 272, 274, 275, 474; cultural geography courses: GEOG 220, 244, 290, 444, 454; geographic techniques courses: GEOG. 256, 266, 276, 378, 442, 476, 478; planning courses: GEOG 241, 420, 433, 439, 440, 441, 443, 450; and regional geography courses: GEOG 120, 330, 434, 435, 436, 437, 446, 448, 452, 459, 490.

Acceptable substitutes for GEOG 425 or 430 will be jointly determined by student and adviser. When approved in advance by the student's adviser, up to 6 credits of cognate courses in one or two other disciplines may be applied toward the major in Geography.

For certification in elementary education, students are advised to follow the General/Regional program in the Geography major. Please consult with the School of Education and Professional Studies concerning additional education requirements.

Completion of a concentration in another discipline is required, except for elementary education students. Certain concentrations are especially recommended by the department, depending on the career track chosen by the student. We also encourage participation in Central Connecticut State's Cooperative Education program.

Major in Geography with a Specialization in Planning, B.A.

36 credits as follows: GEOG 110, 241 and 441; 15 credits in geographic techniques; 3 credits from GEOG 440, 443 or 450; 3 credits from GEOG 433 or 439; 3 credits from GEOG 244, 272, 275, 444, or 490; and GEOG 420. A concentration in another discipline acceptable to the student's adviser is required. Students will use CS 113 and STAT 104 or 215 to fulfill their Mode 2 General Education requirement, and will also take ENG 403 to partially fulfill their Area A General Education requirement.

Concentration in Geography with a Specialization in Planning, B.A.

18 credits in Geography as follows: GEOG 110 and 241; 6 credits from GEOG 272 and/or any geographic techniques course; 6 credits from GEOG 442 and/or any 400-level planning course (See Geography Course Groups above).

Concentration in Geography, B.A., or B.S.

18 credits in Geography as follows: GEOG 110 or 120; and 15 credits of Geography electives. We recommend these electives include one course from each group listed in the Geography Course Groups above.

Major in Social Science with Concentration in Geography, B.S.

(Acceptable for secondary certification in social studies.)

56 credits distributed as follows:

18 credits in History, to include: HIST 121 and 122 or HIST 142 and 143; HIST 261 and 262; and 6 elective credits, one of which must be in non-western history.

18 credits from six of the following courses (must be spread among three social sciences): ANTH 140; ECON 200, 201; PS 104, 110; PSY 112; SOC 110.

18 credits from ED 256, 373, 400 or 401, 413, SPED 470 and PSY 235. In addition, students must take SSCI 420 for 2 credits.

18 credits in Geography, as specified by the requirements for the Concentration in Geography.

NOTE: Please consult with the School of Education and Professional Studies concerning additional requirements.

NOTE: Geography is not a certifiable subject in Connecticut. Those who wish to teach the subject at the secondary level in the state should complete this major. An interdisciplinary major in mathematics, science and geography is also available for elementary education students.

Interdisciplinary Major in Mathematics with Science and Geography, B.S.

(Acceptable for certification in elementary education)

39 credits. For course listing, see major in Interdisciplinary Mathematics/Science/Geography, page 45.

Please consult with the School of Education and Professional Studies concerning additional education requirements.

History

Chairperson To Be Named: A. B. Baker, J. Bergman, F. O. Best, S. Blejwas, H. H. Brown, G. T. Emeagwali, M. Guarino, J. Ifkovic, E. Kapetanopoulos, M. Katzman, N. H. Mezvinsky, N. G. Papp, H. Munro Prescott, A. C. Richard, D. G. Sanford, C. Stephenson, P. Tolis, J. P. Walsh. (Dept. phone 827-7469)

Major in History, B.A.

39 credits in History, as follows: HIST 121 or 142 and HIST 122, or 143; HIST 261 and 262; 12 credits in the primary area of concentration; 6 credits in the secondary; 3 credits senior seminar (either HIST 493 or 495) and 6 credits of elective (above 100 level). An optional History Honors Seminar (HIST 494) may be included in the elective category. History majors must complete 12 credits in 400-level courses. **All History majors must take at least one course dealing with the non-western world.** This requirements may be met through appropriate basic courses, a course within an area of concentration, or through an elective. The areas of concentration are: Ancient and Medieval, Medieval and Modern European, American, East Asian, and Latin American.

Major in History, B.S.

(Certifiable for secondary teaching of history and social studies)

54 credits as follows:

a. 39 credits in History including HIST 121 or 142, and 122 or 143, 261, 262; 12 credits in the primary areas of concentration; 6 credits in the secondary; 3 credits in senior seminar (either HIST 493 or 495); and 6 credits of electives (above 100 level).

12 credits must be completed in 400-level history courses. SSCI 420 may be included in the electives when taken for 3 credits. One course dealing with the non-western world must also be completed. This requirement may be met through appropriate basic courses, a course within an area of concentration, or through an elective. The areas of concentration in the major areas are: Ancient and Medieval, Medieval and Modern European, American, East Asian, and Latin American.

b. 15 credits in Social Science distributed among at least four of the disciplines: Political Science, Economics, Geography, Sociology, Anthropology, and Psychology. A minor/concentration in one of the above would be desirable.

In addition, students must complete SSCI 420, EDSC 372/373 and 413, SPED 470, EDF 400 OR 401, PSY 235 and EDSC 256.

No concentration is required of students in this major.

Major in History, B.S.

(Certifiable for elementary education)

39 credits in History as specified under the major in History, B.A. For course requirements in Education refer to the Division of Elementary and Early Childhood Education in this catalog.

Interdisciplinary Major in Social Sciences with Core in History, B.S.

(Acceptable for certification in elementary education)

39 credits. Required: HIST 261, 262; GEOG 110, 120. 15 additional credits in History, with a minimum of 9 credits at the 300/400 level, selected from the following: HIST 143, 360, 361, 369, 381, 382, 423, 424, 425, 426, 427, 428, 442, 443, 444, 465, 469, 485, 486 and including at least one non-western history course from HIST 122, 351, 352, 375, 376, 472. 6 credits in Political Science are required, selected from PS 104, 110, 230, 235. 6 credits are required in one of the following disciplines — Anthropology, Economics or Sociology: select from ANTH 140 and 150, 160, or 225; ECON 200 and 201; SOC 110 and 234. Please consult with the School of Education and Professional Studies concerning additional education requirements.

Concentration in History, B.A. or B.S.

18 credits of History, including HIST 121 or 142 and 122 or 143. 6 credits must be taken in 400-level courses at Central Connecticut State.

Phi Alpha Theta offers the Theodore Paullin Prize for historical scholarship.

Mathematical Sciences

W. J. Driscoll, *Chairperson*; M. G. Pronga, *Assistant Chairperson*; S. A. Bacon, W. W. Boelke, Y. Chen, P. A. Coe, D. J. Kelly, S. H. Lewis, R. D. Marzi, J. McGowan, J. Melin, D. S. Miller, G. B. Miller, N. Padma, J. K. Piorkowski, C. D. Smith, V. Sung, M. W. Swinsick, F. Van Dyke, C. Waiveris.
(Dept. phone 827-7374)

Major in Mathematics, B.S.

(Certifiable for secondary teaching)

40 credits in Mathematics, as follows: MATH 122, 218, 221, 228, 323, 327, 366, 411, 413; STAT 315, MATH 308 or 328; and 6 credits of Mathematics and/or Statistics electives. In addition, CS 213 or CS 151 is required. It is recommended that students who major in Mathematics elect one year of a laboratory science as part of their General Education program. A plan of study listing the Mathematics/Statistics courses to be taken to complete the major requirements must be approved by the student's major adviser and filed with the adviser and the department chairperson prior to the student's acceptance into the Professional Program for Teacher Education.

Major in Mathematics, B.A. or B.S.

36 credits in Mathematics and related courses including: MATH 122, 218, 221, 222, 228, and 366. The remaining 14 credits may be selected from MATH 300, 333, 398, 463, 466, 468, 469, 470, 477, 478, 479, 483, 486, 491, 495; STAT 315, 416, 451, 455, 456, 465, 467, 475; ACTL 400, 410, 420, 430, 435, 440, 444, 450, 480. In addition, two laboratory science courses are required; CS 151 or the knowledge of a high-level programming language is highly recommended.

This major is acceptable for certification in elementary education. No concentration is required for elementary education students. Please consult with the School of Education and Professional Studies concerning additional education requirements.

Major in Mathematics with Specialization in Actuarial Science, B.A.

58 credits in Mathematics and related courses including: MATH 122, 218, 221, 228, 366; STAT 315, 416; ACTL 400; 2 credits chosen from ACTL 410, 420, 430, 435, 440, 450; ECON 200, 201; and AC 201; 9-12 credits chosen from MATH 222, 300, 335, 470, 477; STAT 455, 475; ACTL 410, 420, 430, 435, 440, 444, 450, 480; and 9-12 credits chosen from AC 202, FIN 300, 340; MKT 303; LAW 250; MGT 301; ECON 450; MC 207; CS 151 (strongly recommended), 152, 253, 450, 473. No concentration is required for students choosing this major.

Major in Mathematics with Specialization in Operations Research, B.A.

54 credits in Mathematics and related courses including: MATH 122, 218, 221, 222, 228, 366, 470; STAT 315, 416; ECON 200, 201, 305, 460, 485. The remaining 8 credits may be selected from MATH 300, 477, 478; STAT 451, 455, 456, 467, 475; Economics courses acceptable toward the B.A. Economics major (ECON 470 strongly recommended); CS 151 (strongly recommended), 152, 253, 450, 473. No concentration is required for students choosing this major.

Major in Mathematics with Specialization in Statistics, B.A.

58 credits in Mathematics, Statistics and related courses including: MATH 122, 218, 221, 222, 228, 366; STAT 215, 315, 416; STAT 216 or 453; two courses chosen from STAT 451, 467 and 475; two courses chosen from STAT 455, 456, 465 and 470. The remaining 11 credits may be selected from the courses listed above or MATH 300, 463, 491, 495; CS 151 (strongly recommended), 152, 253, 450, 473; BIO 250, 405; ECON 460, 485; GEOG 476; PSY 222, 351; SOC 410; QA 420, 425. No concentration is required for students choosing this major.

NOTE: The following courses may not be counted toward the requirements for a Mathematics major, or secondary concentrate: ECM 099, MATH 101, 103, 105, 115, 125, 126, 131, 132, 140, 203, 303, 305, 306, 307, 309, 441, 442, 446, 449 and STAT 104.

Interdisciplinary Major in Mathematics/Science, B.S. (Acceptable major for certification in elementary education)

39 credits in Mathematics/Science including: MATH 103, 203, STAT 104 and 9-12 credits selected from MATH 115, 121, 125, 305, 306, 309, 446; and BIO 111, 132, 211, ESCI 111, 117, and one of SCI 115, PHYS 111, CHEM 111. (Major consists of 18-21 credits in Mathematics and 18-21 credits in Science.)

Interdisciplinary Major in Mathematics with Science and Geography, B.S.

(Acceptable major for certification in elementary education.)

39 credits in Mathematics/Science/Geography including: MATH 103, 203, STAT 104 and 9-12 credits selected from MATH 115, 121, 125, 305, 306, 309, 446; and either BIO 111 or 132 or 211, and either ESCI 111 or 117, and either SCI 115 or PHYS 111 or CHEM 111, and 0-3 credits from science courses listed in previous science groups; GEOG 110, 120, and 3-6 credits in Geography. (Major consists of 18-21 credits in Mathematics, 9-12 credits in Science, and 9-12 credits in Geography.)

NOTE: Please consult with the School of Education and Professional Studies concerning additional education requirements.

Concentration in Mathematics, B.S., Secondary

18 credits in Mathematics as follows: MATH 122, 218, 221, either MATH 228 or 366, and STAT 315.

NOTE: For certification in mathematics as a second teaching field, the state of Connecticut requires a minimum of 24 credits in mathematics and an acceptable score on the CONNTENT examination.

Concentration in Mathematics, B.A. and B.S., Non-Teaching*

18 credits in Mathematics, as follows: MATH 122, 218, 221, 228 or 366, and 3 credits of Mathematics or Statistics electives which are acceptable toward the B.A. degree in Mathematics.

Concentration in Mathematics, B.A. (for B.A. Physics Majors)

18 credits in Mathematics as follows: MATH 122, 218, 221, 463 and 3 credits chosen from MATH 222, 228, and 471.

Concentration in Statistics, B.A. and B.S.

21 credits including: STAT 215, 216, CS 151; three courses chosen from MATH 140, 470, STAT 455, 456, 465, 476; one course chosen from the courses listed above or CS 450, 473; BIO 306, 405; ECON 460, 485; GEOG 476; PSY 222, 300, 351; SOC 400, 410; QA 420, 425.

NOTE: At most one course may be used in both the student's major program and the concentration in Statistics.

*Pending approval

Modern Languages

D. Pomerantz, *Chairperson*; M. A. Arenas, L. Auld, G.H. Caliendo, R. Castells, E. Force, P. Karpuk, R. Klinkenborg, C. S. Lien, G. Palma, M. Passaro, R. A. Picerno, M. Rohinsky, S. R. Schulman, S. L. Smith, S. Tomoda, L. Uribe, M. M. Wallach.
(Dept. phone 827-7508)

Major in French, German, Italian, B.S.

(Certifiable for secondary teaching)

38 credits as follows: FR, GER, ITAL 125, 126, 225, 226, 360, 305, 315, 316, 335, 336, ML 408; and 6 credits of directed electives. For students with advanced preparation appropriate substitutions will be made.

Major in Spanish, B.S.

(Certifiable for secondary teaching)

38 credits as follows: SPAN 125, 126, 225, 226, 305, 315, 316, 335, 336, 376, ML 408; and 6 credits of directed electives. For students with advanced preparation appropriate substitutions will be made.

Minor in French, German, Italian, Spanish, B.S.

(Certifiable for secondary teaching)

23 credits including language courses numbered 125, 126, 225, 226, 305, 316, 335 or 336, and ML 408.

Interdisciplinary Major in Modern Languages with Core in French, B.S.

(Acceptable for certification in elementary education)

39 credits. 21 credits in French required as follows: FR 114, 125, 126, 225, 226, 315, 316. (Students beginning the core with FR 125 instead of 114 will take an advanced course to complete 21 credits). 12 credits in History and Political Science are required: HIST 346, 545; PS 104, 336. 6 credits in Geography are required: GEOG 110 or 120 and 434 or 452. Please consult with the School of Education and Professional Studies concerning additional education requirements.

Interdisciplinary Major in Modern Languages with Core in German, B.S.

(Acceptable for certification in elementary education)

39 credits. 21 credits in German required as follows: GER 125, 126, 225, 226, 315, 316, and 335 or 336. 12 credits in History and Political Science are required: HIST 344, 549; PS 104, 336. 6 credits in Geography are required: GEOG 110 or 120, 452. Please consult with the School of Education and Professional Studies concerning additional education requirements.

Interdisciplinary Major in Modern Languages with Core in Italian, B.S.

(Acceptable for certification in elementary education)

39 credits. 21 credits in Italian required as follows: ITAL 125, 126, 225, 226, 315, 316, and 441 or 442. 18 credits in History, Geography and Humanities are required: HIST 441, 443; GEOG 110 or 120, 220, 452; HUM 490. Please consult with the School of Education and Professional Studies concerning additional education requirements.

Interdisciplinary Major in Modern Languages with Core in Spanish, B.S.

(Acceptable for certification in elementary education)

39 credits. 21 credits in Spanish required as follows: SPAN 114, 125, 126, 225, 226, 315, 316. (Students beginning the core with SPAN 125 instead of 114 will take an advanced course to complete 21 credits). 6 credits in History are required from HIST 381, 382, 441, 485. 6 credits in Geography are required from GEOG 110 or

120 and 434 or 436. 6 credits in Political Science are required: PS 103, 320. Please consult with the School of Education and Professional Studies concerning additional education requirements.

Major in French, German, Italian, B.A.

30 credits as follows: FR, GER, ITAL 125, 126, 225, 226, 305, 315, 316, 360 and 6 credits of directed electives.

Major in Spanish, B.A. or B.S.

30 credits as follows: SPAN 125, 126, 225, 226, 305, 315, 316, 376 and 6 credits of directed electives. For students with advanced preparation appropriate substitutions will be made.

The major is acceptable for certification in elementary education. No concentration is required for elementary education students. Please consult with the School of Education and Professional Studies concerning additional education requirements.

International Studies Major with focus on Russian Studies, B.A.

In consultation with the program adviser, students may pursue a program focusing on Russian Studies within the framework of the International Studies major. For additional information, see International and Area Studies: Slavic/East European Studies.

Concentration in Modern Language, B.A. or B.S.

18 credits as follows: FR, GER, ITAL or SPAN 125, 126, 225, 226 and 6 credits of directed electives,

In Chinese, the requirement is CHIN 111, 112, 125, 126 and 6 credits of directed electives.

In Russian, the requirement is RUS 125, 126, 225, 226 and 6 credits of directed electives.

Concentration in Latin American Studies

(Spanish Majors, B.S. and B.A.)

21 credits as follows: ANTH 140, 424; HIST 381, 382; GEOG 334, 336; ECON 200 or PS 438. (SPAN 375 and 376 should be taken as electives in the major requirement.)

Majors in other departments: See catalog under International and Area Studies.

LANGUAGE PLACEMENT EXAMINATION

Every student must demonstrate proficiency in a foreign language equivalent to completion of one year of college-level study.

The Department of Modern Languages tests achievement levels in French, German, Italian and Spanish on specified registration dates. Students with skills in languages other than those listed above should arrange with the Department of Modern Languages for verification of their level of proficiency.

These examinations serve both for exemption and placement.

All students, including native speakers, with two years or less of previous foreign language study must take the exams.

Students with three or more years of successful secondary language study in one language are automatically exempt from further required coursework and need not take the exam unless they expect to continue study in that language.

Only students with no foreign language background should register for an elementary language course, numbered 111.

Music

S. W. Davis, *Chairperson*; B. G. Chandler, H. H. Denmead, L. Laurent, P. Perry, J. Ribchinsky, G. Rosa, J. M. Shugert, C. R. Young. (*Dept. phone 827-7251*)

ASSOCIATE FACULTY: G. Sanders, trombone; S. Perry, tuba; S. Casper, voice; C. Coughlin, percussion; A. Spriestersbach, classic guitar; L. Jones, bassoon. R. Hoyle, horn; B. Gryk, organ; D. Aquino, voice; D. Westfall, piano; and L. Ciacchi, T. Demke, L. Eckstein, E. Eklof, Chan Le, K. Peterson, R. Small and M. Tolo, lecturers.

To enroll as a Music major, the student must consult with the chairperson of the Music Department. Entrance auditions along with theory and secondary piano placement tests will be administered by members of the Music faculty. Students with deficiencies in theory and/or piano will be required to take remedial courses which will not be credited toward the degree.

Major in Music Education, B.S.

(Certifiable for K-12 teaching)

47 credits in music including: MUS 115, 116, 121, 122; 6 credits in either MUS 141, 142 or 143; MUS 215, 216, 221, 222, 235, 259, 261, 262, 263; MUS 335, 367 or 368, 390, 435, and 7 semesters of MUS 178.

Also required are 30 credits in Professional Education including: MUS 101, 310, either 315 or 316; EDSC 256 and 375, EDF 400 or 401; EDSC 420; and SPED 470.

Students in this program must take the following as part of their General Education requirements: HIST 261 or 262 in Mode 5, PSY 235 in Mode 6, PHYS 113 in Mode 8, and ENG 110 in Area A.

NOTE: MUS 335, SPED 470 (both Area C), and MUS 141, 142, 143 (all Mode 4), are included in General Education.

NOTE: This major does not require a concentration.

*Students enrolled in MUS 177 or 178 must pay an extra non-refundable fee of \$150 or \$200, respectively, each semester.**

All Music Education majors must enroll in Piano Class until a piano proficiency exam is passed; this exam must be passed prior to junior-year acceptance. The piano proficiency exam consists of the following:

1. Sight-reading (four-part harmony as found in a community song book; a simple vocal accompaniment; a simple piano piece).
2. Transposing up or down a second.
3. Harmonizing of a melody.
4. Playing of major and minor scales, two octaves.
5. Playing three short pieces, one from memory.

*Subject to change.

Major in Music, B.A.

Core curriculum, 42 credits as follows: Basic Musicianship, MUS 115, 116, 121, 122, 215, 216, 221, 222, 235, 335, 390 or 395, 435. Music Performance: 8 credits of MUS 177 and/or 178; 8 credits from MUS 141, 142 and 143.

Electives: 18 credits as follows, choose A, B or C:

- A. Free electives
- B. Concentration outside major
- C. Specialization within major as follows, choose 1, 2, 3 or 4:
 1. Performance: 8 additional credits of 177 or 178; MUS 421: 2 credits of music electives; Senior Recital: 6 credits of free electives.
 2. Theory and Composition: MUS 390 or 395 (whichever was not completed in core curriculum); MUS 495, 470 and 3 credits of MUS 400; Project in Music, 6 credits of free electives.
 3. Music History and Literature: MUS 441, 470 and 2 credits of MUS 400, Project in Music; 6 credits from: MUS 430, 431, 432, 434, 436 and 439; 6 credits of free electives.
 4. Jazz Studies: 8 credits additional MUS 177 or 178; MUS 363, 364, 365; 1 credit of MUS 140: Jazz Combo (Jazz Ensemble will be the student's major ensemble). (MUS 113 will be elected in Area C, PHYS 113 will be elected in Mode 8)

Interdisciplinary Major — Fine Arts with Core in Music, B.S.

(Acceptable for certification in elementary education.)

39 credits. 18-21 credits in Music, including MUS 170, 270; 3 credits from MUS 177, 250, 251, 264, 350, 351; 3 credits from MUS 140, 141, 142, 143, 144; 6-9

credits of Music electives in consultation with adviser. 6-9 credits of Art are required, including ART 122, 124, and ART 130 or 264. 6-9 credits in Theatre are required, from TH 111, 121, 143 or 145, 151, 373 or 374. 3-6 credits in Dance are required, including DAN 151 and 2-5 credits from DAN 152, 153, 157, 158, 275. Please consult with the School of Education and Professional Studies concerning additional education requirements.

Concentration in Music

Students planning to concentrate in Music must consult the department chairperson for assignment of an adviser.

18 credits in Music, as follows: MUS 110, 170, 270; 3 credits of Music electives; 3 credits from MUS 177, 250, 251, 350, 351; 3 credits from MUS 140, 141, 142, 143, 144; 3 credits of music electives with adviser's approval.

Philosophy

A. P. Iannone, *Chairperson*; D. Blitz, L. M. Creer, E. Godway, J. McKeon, S. Morris.
(Dept. phone 827-7632)

Major in Philosophy, B.A.

(a) General Program

36 credits in Philosophy including: PHIL 220, 230, 330, 346, 368, 400, either 232 or 332, and 15 credits in electives, no more than 3 credits at the 100 level and at least 6 credits at the 300 level or higher.

(b) Specialization in Applied Ethics

36 credits in Philosophy including: PHIL 220, 230, 330, 346, 400, 440; 12 credits from PHIL 222, 240, 242, 244, 343, 344, 345, 349 (no more than 6 credits at the 200 level) and 6 credits in electives, no more than 3 credits at the 100 level.

Concentration in Philosophy, B.A. or B.S., Secondary Education

18 credits in Philosophy, including: PHIL 220, 230, 330, either 346 or 368; and 6 credits in electives, no more than 3 credits at the 100 level.

Physics — Earth Sciences

C. Baskerville, *Chairperson*; A. Antar, S. F. Burns, C. C. Chow, C. W. Dimmick, G. Geyer, K. Larsen, P. LeMaire, S. B. Newman, T. A. Roman, N. Sadanand, R. J. Salamon, L. Tongson.
(Dept. phone 827-7228)

Located in Copernicus Hall, the facilities of the Physics/Earth Sciences Department include numerous introductory and intermediate/advanced laboratories as well as two teaching laboratories, an observatory containing a

16-inch telescope, a 100-seat planetarium, a 400-kv Van de Graaff linear accelerator, an ion implanter, and a fully equipped weather center which includes a National Weather Service Digital Computer Facsimile System, a rooftop satellite data retrieval system and a fully operational color weather radar monitoring system.

In addition to teaching, the faculty pursue many areas of interest including atomic collisions, ground water pollution, public planetarium productions, lunar, planetary and deep sky observing, weather forecasting and analysis, prediction of thunderstorm activity in Connecticut, science education, particle physics, solid state physics, applied holography and general relativity.

Wherever possible, students enrolled in the programs listed below are encouraged to join with the faculty in their ongoing studies in these and other areas.

Credit is not given toward a major or minor in this department for PHYS 111, 113, 115 or ESCI 110, 111, 116, 117 or 118.

Major in Earth Science, B.S.

(Certifiable for secondary teaching)

30 credits in Earth Science, including ESCI 121, 122, 123, 129, 178 or 179, and other electives as approved by faculty adviser. In addition, the student must take CHEM 121, 122; PHYS 121, 122; BIO 121, 122; SCI 417, 420 and MATH 122, 221.

***Minor in Earth Science, B.S.**

(Certifiable for secondary teaching)

20 credits in Earth Science, including ESCI 121, 122, 123, 129, 178 or 179 and other electives as approved by faculty adviser. In addition, a student must take SCI 417, MATH 122, 221 and PHYS 121, 122.

Major in Physics, B.S.

(Certifiable for secondary teaching)

33 credits in Physics: PHYS 125, 126, 220, 225, 250, 305, 320, 331, 350, 425, 426 and 450. In addition, the student must take BIO 121; CHEM 121 and 122; SCI 417 and 420; MATH 122, 221, 222 and 321.

Minor in Physics, B.S.

(Certifiable for secondary teaching)

18 credits in Physics, including: PHYS 125, 126, 220 and 250, and 6 credits of Physics electives. In addition, a student must take CHEM 121 and 122, MATH 121, 122, 221, 222 and SCI 417.

Major in Physics, B.S. (non-teaching)

39 credits in Physics, including: PHYS 125, 126, 220, 225, 250, 305, 320, 331, 350, 425, 426, 450 and 470. In addition, the student must take CHEM 121 and 122 and MATH 122, 221, 222 and 321. Completion of a concentration is required, and for students planning graduate work a year of French, German or Russian should be taken.

This major is acceptable for certification in elementary education. No concentration is required for elementary education students. Please consult with the School of Education and Professional Studies concerning additional education requirements.

Major in Earth Science, B.S. (non-teaching)

30 credits in Earth Science, including: ESCI 121, 122, 123, 129, 178 or 179. Other elective courses must be chosen from ESCI 221, 222, 278, 330, 342, 421, 424, 430, 442, 450, 461, 462 or GEOG 274. In addition, the student must take CHEM 121, 122; MATH 122, 221; PHYS 121 and 122. A concentration is not required. For students contemplating graduate work a year of French, German or Russian is recommended.

This major is acceptable for certification in elementary education. No concentration is required for elementary education students. Please consult with the School of Education and Professional Studies concerning additional education requirements.

Interdisciplinary Major — Sciences with Specialization in Physics or Earth Sciences, B.S.

(Acceptable for certification in elementary education.)

39 credits. For course listing, see major in Interdisciplinary Sciences, page 45.

Concentration in Physics, B.A. or B.S.

18 credits in Physics, including: PHYS 125, 126 and 220. The remaining Physics courses will be selected after consultation with the student's Physics Department adviser. In addition, the student must take MATH 121, 122, 221 and 222.

Concentration in Meteorology, B.A. or B.S.

18 credits in Earth Science and related fields including: ESCI 129, 461 and 462. The remaining 8 credits will be chosen from ESCI 342, 430, 442, GEOG 274 and 474. In addition, the student must take MATH 122, 221.

Concentration in Geology, B.A. or B.S.

18 credits in Earth Science, including: ESCI 121, 122, 123, 221, 222 and one course from ESCI 421, 424 and 440.

Concentration in Astronomy, B.A. or B.S.

18 credits in Astronomy and related fields, including ESCI 178, 179, 278 and 330. The remaining course will be selected from Physics 220, 225 or 425 after consultation with an Earth Science Department adviser. In addition, the student must take MATH 122, 221 and PHYS 121, 122.

Political Science

W. L. Brown, *Chairperson*; A. C. Moran, G. El-Eid, G. Salazar, A. G. Smith, M. A. Triebwasser, H. G. P. Wallach. (*Dept. phone 827-7460*)

Major in Political Science, B.A.

36 credits in Political Science, as follows: PS 104 or 110 and one course in each of the following areas— Political Theory ; Comparative Government; International Relations and Organization; Public Law, Methodology and Organizational Behavior. COMM 360 may be applied to the 36-hour Political Science requirement. So may be, when approved in advance by the departmental chairperson, 6 credits from the fields of history, sociology, psychology, economics, geography, mathematics, and statistics.

Major in Political Science with Specialization in Public Administration, B.A.

36 credits in Political Science, as follows: PS 110, 230, 340; 3 credits in Economics (except Economics concentrates); PS 344 or 446 and PS 331 or 332. 6 credits from PS 480-481 or 482-483, 490 or 491, or approved 400-level courses in Political Science and related fields. 12 credits of electives from Political Science, or from fields directly related to Public Administration, with prior approval from the department adviser. Students must also complete a concentration in an area relevant to Public Administration.

Concentration in Political Science, B.A.

18 credits, of which at least 15 must be in Political Science; the remaining credits may be earned in a discipline relevant to Political Science.

Concentration in Political Science, B.S.

18 credits, including PS 104 or 110. Credit for not more than 6 credits toward a Political Science concentration may be granted, with approval of the department chairperson, from those areas listed as options under the major.

Credit will be given for COMM 360 or Parliamentary Law and Politics, as a Political Science elective in any of the above programs.

Psychology

C. Shaw Austad, *Chairperson*; L. Bowman, A. Chavarro, P. P. Chu, K. DeConti, F. Donis, D. Engwall, R. J. Fitzsimmons, C. A. Ford, M. B. Goldstein, G. Hampl, S. W. Horowitz, L. Perdue, N. Steefel, R. S. Stowe, S. K. Vaillant, I. Vlahakos, B. Waite.
(Dept. phone 827-7303)

The Department of Psychology offers courses leading to the Bachelor of Arts and Bachelor of Science degrees. The Psychology curriculum provides students with a broad view of the field, its methods of study, and the various specialities of modern psychology.

Individuals major in psychology for various reasons. Many wish to continue their studies in graduate or professional schools of psychology. Others may enroll in non-psychology professional programs such as law, education, social work, etc. Still others study psychology to gain an understanding of people, for later use in management, teaching or other business-related careers. Many students enter directly into psychology-related positions in such areas as rehabilitation or human services. Finally, psychology provides a vehicle for personal development and one avenue for pursuing a liberal arts education. Whatever one's reasons for choosing this major, the study of psychology will broaden one's knowledge of people and their behavior and teach one how to study behavior in a scientific way.

The Department places emphasis on quality teaching and encourages individual research and scholarship. For students interested in experimental psychology, laboratory and computer facilities are available. For those interested in developmental issues, excellent opportunities exist for observing and interacting with children. Faculty resources are always available for student consultation.

Students wishing to major in Psychology, upon completion of a data sheet in the department office, will be assigned advisers to guide their program choices. Curriculum sheets and advisory materials are also available from the department office.

Major in Psychology, B.A.

36 credits in Psychology, including the following required courses: PSY 112, 221, 222, 236 and 490. One course is required from each of the following categories: Social/Personality, PSY 372 or 470; Biological, PSY 342 or 450; Clinical, PSY 330 or 351; Experimental, PSY 200, 281 or 440. Electives: Any three additional courses in Psychology.

NOTE: STAT 215 is a prerequisite for PSY 221.

Major in Psychology, B.S.

(Acceptable for certification for elementary education)

36 credits in Psychology including PSY 112, 221, 222, 490; one course from each of the following core areas:

Social/Personal, PSY 372 or 470; Biopsychological PSY 342 or 450; Clinical, PSY 330 or 351; Experimental, PSY 200 or 281 or 440; Developmental, PSY 235 or 236; and 9 credits of Psychology electives.

Please consult with the School of Education and Professional Studies concerning additional education requirements.

Concentration in Psychology, B.A.

18 credits, including PSY 112, and 15 credits of Psychology electives.

Concentration in Psychology, B.S., Secondary

20 credits, as follows: PSY 112, 235 and PSY or EDSC 256; three courses from PSY 330, 351, 363, 365, 372, 462, 470; and one additional Psychology course.

Concentration in Psychology, B.S., Special Education

18 credits, as follows: PSY 112, 200 and 235 or 236; any three courses from PSY 281, 330, 362, 363, 365, 372, 446, 454, 470, 480.

Religious Studies

J. McKeon (Philosophy), *Adviser*; L. M. Creer (Philosophy); G. Gigliotti (English), D. Kideckel (Anthropology), F. Best, N. Mezvinsky (History), B. Baldwin (Sociology).
(Dept. phone 827-7632)

Concentration in Religious Studies, B.A. or B.S., Elementary or Secondary

18 credits of approved courses, including one 3-credit course from each of the four specified course areas:

- 1) Comparative Religion (REL 110, World Religions).
- 2) Religious Texts (ENG 360, Old Testament as Literature; ENG 361, New Testament as Literature).
- 3) Historical/Social Science (HIST 377, 378, 435, 436, 441, 473; SOC 330; ANTH 440).
- 4) Philosophical/Religious Thought (PHIL 232, 355, 376, 492; REL 105, 357, 492).

Science and Science Education

Interdepartmental Staff

R. J. Salamon, *Science and Science Education*

Coordinator; Advisers — S. F. Burns, L. M. Carluccio, R. L. Davis.

Major in Interdisciplinary Sciences, B.S.

(a) Specialization in General Science

(Certifiable for secondary teaching)

57 credits of Natural Sciences including BIO 121, 122, 221, 318; CHEM 121, 122, 450-451; ESCI 121, 122, 123, 129, 178 or 179; PHYS 121, 122; SCI 417 and 420.

MATH 121 and 122 are required. The completion of a minor in either Biology or Earth Science is also required. If the minor is in Earth Science, BIO 122 is replaced by BIO 227.

(b) Specialization in Physical Sciences

54 credits in science, including CHEM 121, 122; PHYS 125, 126; ESCI 121, 123, 129, 178 or 179; BIO 121, 122. The remaining 18 credits are selected from courses in Physics, Chemistry and the Earth Sciences approved for majors and minors in those fields. MATH 121, 122, 221 are also required. A concentration is not required.

(c) Specialization in Environmental Interpretation:

50 credits in the Natural Sciences or in approved areas, including the following:

- 1) BIO 121, 122; STAT 104 or CS 113; ESCI 121, 123.
- 2) Structured elective component. Earth and Planetary Sciences, four courses from the following or from other courses in Earth Science approved by the chairperson of the Physics/Earth Sciences Department — ESCI 129, 178, 179, 201, 301, 424, 450.
- 3) Structured elective component. Life Sciences, three courses from the following or from other courses in Biology approved by the chairperson of the Biological Sciences Department— BIO 120, 150, 221, 222, 226, 227, 405, 436, 444.
- 4) Electives. In lieu of a concentration at least 15 credits with the adviser's approval from the following courses or from any of the Natural Sciences: ART 490; GEOG 256, 272, 276, 433, 442; ANTH 150, 151, 325, 417, 422; SCI 418; PE 303.

At least 9 credits of the elective component must be from courses in Biology, Chemistry, Physics and the Earth Sciences, and must be completed at the 300 level or above. 3 credits of Internship (SCI 453) are also required.

S. Burns, L. Carluccio, R. Davis and R. Salamon are members of the advisory committee for this program. Acceptable major for certification programs in elementary education.

(d) Specialization in Physics, Chemistry, Biology or Earth Sciences

(Acceptable major for certification programs in elementary education)

39 credits. Core: 24-32 credits. Required: Physics (6-8 credits), PHYS 111, 113, or 121, 122, or 125, 126; Chemistry (6-8 credits), CHEM 111, 102, 104 or 121, 122; Biology (6-8 credits), BIO 211, 111, 132 or 121, 122; Earth Science (6-8 credits), ESCI 111, 117 or 121, 122, 123.

Specialization — A minimum of 18 credits in a specialization including 6-8 credits in the core of the specialization:

Physics — Requires PHYS 121 and 122 as core courses. Choose a minimum of 10 credits from the following electives: PHYS 220, 225, 305, 320, 331. Other electives as approved by adviser.

Chemistry — Requires CHEM 121 and 122 as core courses. Choose a minimum of 10 credits from the following electives: CHEM 102, 301, 311, 312, 406, 450, 451, 454. Other electives as approved by adviser.

Biology — Requires BIO 121 and 122 as core courses. Choose a minimum of 10 credits from the following electives: BIO 221, 222, 226, 227, 306, 405. Other electives as approved by adviser.

Earth Science — Requires ESCI 121, 122, 123 as core courses. Choose a minimum of 10 credits from the following electives: ESCI 129, 221, 222, 440, 450. Other electives as approved by adviser.

Interdisciplinary Mathematics/Science Major, B.S.

(Acceptable major for certification programs in elementary education.)

39 credits. Mathematics (18-21 credits): Required (9 credits), MATH 103, 203, STAT 104; Electives (9-12 credits), MATH 115, 121, 125, 305, 306, 309, 446. Science (18-21 credits): Required, BIO 111, 132, 211, ESCI 111, 117. Choose one of the following: SCI 115, PHYS 111, CHEM 111.

Interdisciplinary Major — Mathematics/Science/Geography, B.S.

(Acceptable major for certification programs in elementary education.)

39 credits. Mathematics (18-21 credits): Required (9 credits), MATH 103, 203, STAT 104; Electives (9-12 credits), MATH 115, 121, 125, 305, 306, 309, 446. Science (9-12 credit minimum): Biological Science (3 credit minimum), BIO 111, 132, 211; Earth Science (3 credit minimum), ESCI 111, 117; Phys., Chemistry or Physical Science (3 credit minimum), SCI 115, PHYS 111, CHEM 111. Geography (9-12 credits): GEOG 110, 120; Elective, at least one additional course in Geography.

Minor or Concentration in Science, B.S. or B.A.

24 credits as follows: 12 to 16 credits from BIO 121, CHEM 121, ESCI 121, 123 or PHYS 121 (or 125), the

remaining from BIO 122, CHEM 122, or ESCI 178 or 179, and PHYS 122 (or 126). The student should take at least one course in each discipline, and the 8-credit sequence in any one discipline may be credited toward a major as well.

Minor in General Science, B.S.

(Certifiable for secondary teaching)

Restricted to students with a major in Biology, Chemistry, Earth Science or Physics, 31 credits in science, as follows: BIO 121 and 122; CHEM 121 and 122; PHYS 121 and 122; ESCI 121 and 123; and one of the following courses — BIO 318, CHEM 311 or PHYS 225. SCI 417 is required.

Social Sciences

Staff of the Departments of Social Sciences

Methods and Supervision: J. Ifkovic (History Dept.)

Major in Social Sciences, B.S.

56 credits as follows: 18 credits in History — HIST 121 or 142 and 122 or 143 and 261, 262 and 6 elective credits, three of which must be in non-western history.

18 credits in one Social Science discipline (Anthropology, Economics, Geography, Political Science, Psychology or Sociology) as required by that department for a concentration, B.S. program.

18 credits from six of the following courses (not to be duplicative of the second category above and must be in a minimum of three additional Social Science disciplines): ANTH 140, ECON 200, 201; GEOG 110, 120; PS 104, 110; PSY 112; SOC 110. 2 credits in Social Science methods, SSCI 420. In addition, students must take EDSC 256, 373, 413; EDF 400 or 401; SPED 470 and PSY 235. No minor or concentration is required.

Social Work

B. Sosnowitz, *Director*; B. L. Schreier, *Field Coordinator*. (Dept. phone: 827-7462)

Major in Social Work, B.A.

General Program:

57 credits as follows: 36 credits in Social Work including SW 226, 227, 360, 361, 362, 426; two semesters of SW 435 and 6 semester hours of electives; and 21 credits of related courses including SOC 110, 111, 233, 400, 452; BIO 111; and PSY 235. STAT 215 is also required.

The purpose of the Social Work major is to prepare students for beginning social work practice. Since career objectives differ according to the particular interests of each individual, it is advisable for each student to consult with the Social Work faculty about their professional development as soon as possible.

Social work is a field that deals extensively with sensitive social issues and people's personal well-being; therefore, students will be carefully evaluated not only academically but for professional skill. Students must apply and be accepted into the Social Work major by the end of the sophomore year. Applications from all students including transfers will be taken March 1. Acceptance into the University **does not** guarantee acceptance into the Social Work program.

Students admitted to the Social Work major must maintain an average of 2.5 or better in all Social Work courses. Potential for professional skill must be demonstrated in field experiences which are required in all Social Work courses. The faculty will evaluate the field experience along with the academic achievement of the student each semester. Ideally, students entering the Social Work major take the beginning courses with the expectation of continuing in the major. However, it is possible that the student and/or instructor conclude that a student is not fully motivated toward an understanding of the professional as well as the academic responsibilities this major requires. If a student does not meet academic or professional standards, he or she will be placed on provisional status. Written notification will be given and conditions for full completion of the major discussed with the student. Students will be given the opportunity to correct the problem(s), however, if the student does not demonstrate improvement, he or she will not be allowed to complete the major.

NOTE: This program may have revisions to comply with national accreditation standards. Students should check with the program director regarding the possibility of new requirements.

Sociology

S. Pease, *Chairperson*; B. R. Baldwin, M. L. Ertel, L. J. Evans, R. J. Fernandez, J. Hannon, P. A. Hochstim. (Dept. phone: 827-7484)

Major in Sociology, B.A.

General Program:

A major in Sociology, whether in the General or Honors Program, has the option of organizing courses around orientations in Social Research (Sociology and Scientific Method, Research Methodology, Analysis and Interpretation of Social Data, Independent Studies); or Gerontology (Minorities and Social Inequality, Sociology of Aging, Population and Society, Death and Dying). A major may take a concentration in Criminal Justice, or select any of the concentrations the University offers for B.A. students.

33 credits in Sociology including SOC 110, 217, 222, and 225. Of the remaining 21 credits, 12 must be at the 300/400 level. In addition, STAT 215 is required.

NOTE: The student should complete the core course requirements prior to the junior year. Individualized pro-

grams of study will be developed in consultation with the assigned departmental adviser.

Honors Program

33 credits in Sociology including SOC 110, 222, 225, 401 or 402, 480, and 434. Of the remaining 12 credits, 6 must be at the 300/400 level. In addition, STAT 215 and 216 are required.

NOTE: SOC 434 will require a substantial written document as a capstone experience. Individualized programs of study will be developed in consultation with the assigned departmental adviser.

Concentration in Sociology, B.A. and B.S.

18 credits, including SOC 110 and 15 hours of electives in Sociology and certain disciplines, subject to approval of the student's adviser. Normally not open to Anthropology majors.

Concentration in Criminal Justice, B.A. and B.S.

18 credits, CJ 235, 331, or PS 332, 333, 338, 435, and SOC 337. Students concentrating in Criminal Justice are urged to consult the director of the criminal justice program.

NOTE: All criminal justice courses may be counted for Sociology credit except CJ 331 and 435.

NOTE: Students with a major in Sociology and a concentration in Criminal Justice, or a major in Political Science and a concentration in Criminal Justice, may count the Criminal Justice, Sociology and Political Science courses in either the major or the concentration, but not in both.

The academic field of criminal justice is interdisciplinary and involves the study of the definition of crime, the causes and control of criminal behavior, and the operation of the criminal justice system (i.e., police, courts, and corrections). The study of criminal justice is both theoretical and practical in nature and emphasizes theory, application of theory, and evaluation of both theory and practice. Through both classroom and field experience students are prepared for responsible positions of service in law enforcement, the courts, corrections and youth service agencies. Graduates have taken positions in federal, state and municipal law enforcement, federal and state prisons, halfway house staff and management, federal and state probation, private security, and public and private investigation.

Theatre

L. B. Johnson, *Chairperson*; T. J. Callery, Jr., C. Fellows, V. L. Finizio, V. C. Gagliardi, J. Stremien.

(Dept. phone 827-7398)

Major in Theatre, B.F.A.

60 credits completed in one of the following programs:

- a) Acting. 60 credits in Theatre, including 50 credits required as follows: TH 099 (repeated eight times), 111 or 121, 126, 135, 145, 235, 236, 238, 239 (repeated for 3 credits), 246, 327, 336, 347, 373, 447, 449, 456, 483, 484; 10 credits of Theatre electives, excluding TH 100.
- b) Directing. 60 credits in Theatre, including 43 credits required as follows: TH 099 (repeated eight times), 111, 117, 121, 135, 145, 151, 246, 251, 336, 352, 373, 374, 454 or 456, 485 and 488. In addition, 17 credits of Theatre electives, excluding TH 100.
- c) Design and Technical Theatre. 60 credits in Theatre, including 39 credits required, as follows: TH 099 (repeated eight times), 111, 115 (3 credit min.) or 115 (1 credit min.) and 327, 117, 121, 145, 151, 212 or 322, 213-214 or 126, 217, or 481 through 487 (3 credits min.), 316, 318, 373, 374. 21 credits of Theatre electives, excluding TH 100.
- d) General Theatre. 60 credits in Theatre, including 29 credits required as follows: TH 099 (repeated eight times), 110, 111, 117, 121, 126, 145, 151, 373, 374, 489; 17 credits of Theatre electives, excluding TH 100, and 14 credits of Theatre or related fields courses approved by the student's adviser.
- e) General Theatre/Dance Emphasis. 60 credits in Theatre including 33 credits required as follows: TH 099 (repeated eight times), 110, 111, 117, 121, 126, 145, 151, 235, 236, 373, 374, 489; 13 credits of Theatre electives, excluding TH 100, and 14 credits of related fields courses as follows: DAN 150, 151, 152, 153, 157, 158, 275, 352, TH 487 (may be repeated once), MUS 109.

In addition to course requirements, B.F.A. Theatre majors must register for Theatre Practicum each semester of their four years. Majors should consult advisers for specific production requirements for each program, as well as on selection of General Education courses appropriate to program.

NOTE: TH 100 may not be taken for credit toward the Theatre major. Majors are urged to complete at least 6 credits in the Summer Theatre Program, TH 490. A concentration is not required with this major. See the introductory pages of the catalog for general information on theatre facilities.

Major in Theatre, B.A.

34 credits as follows:

A. Core: 22 credits including—

1. TH 099 (minimum of four times), 111, 115, 117, 121, 135, 143, 151.
2. 3 credits from TH 373, 374, 470, 489.

B. Emphasis: 6 credits from one of the following categories—

1. Acting/Theatre Voice: TH 145, 238, 239, 246, 347.*
2. Directing: TH 352, 485, 488.
3. Design/Tech: TH 115 (3 credits max.), 212, 213, 214, 217, 316, 318.
4. Costuming/Makeup: TH 115, 126, 222, 322, 327, 482.
5. Dance/Movement: At least 2 credits from TH 235, 236; at least 2 credits from among DAN 151, 152, 153, 157, 158, 164; and 2 credits from among the above Dance/Movement courses or DAN 150, 275, 352, 490.

C. Electives: 6 credits of Theatre electives (excluding TH 100 and 110).

*In B and C above, Acting/Theatre Voice majors are recommended to complete TH 145, 238 and 246.

Interdisciplinary Major — Fine Arts with Core in Theatre, B.S.

(Acceptable for certification in elementary education.)

39 credits. 20-21 credits in Theatre including TH 111, 121, 126, 143, 151; 6-7 credits from TH 115, 117, 135, 373, 374, 465. 6-9 credits in Art required, including ART 122, 124 and 130 or 264. 6-9 credits in Music required, including MUS 170; 3 credits from MUS 177, 250, 251, 264, 350, 351 or 3 credits from MUS 140, 141, 142, 143. 3-6 credits in Dance required, including DAN 152 and 2-5 credits from DAN 151, 153, 157, 158, 275. Please consult with the School of Education and Professional Studies concerning additional education requirements.

Concentration or Minor in Theatre, B.A. or B.S.

21 credits in Theatre including TH 111, 117, 121, 135, 143, 151 and 3 credits from among TH 373, 374, 470, 489.

SCHOOL OF BUSINESS

Larry E. Short, *Dean*

Walter A. Parker, *Associate to the Dean*

Richard Cardinali, *Assistant to the Dean*

Phone: 827-7285

The School of Business offers programs leading to the Bachelor of Science degree in Business Administration. The aim of these programs is to provide students a broad educational foundation to prepare them for responsible citizenship and leadership roles in business and society—domestic and worldwide.

The curriculum of the School of Business is designed to be responsive to social, economic and technological developments and reflects the application of evolving knowledge in economics, and the behavioral and quantitative sciences.

The School of Business is organized into six departments:

Accounting

Finance

International Business

Management and Organization

Management Information Systems

Marketing

Undergraduate professional work in the School of Business is concentrated in the last two years of the student's four-year program. Students registering in business courses at the 300- and 400-level must either be admitted to the School of Business (see Admission to the School of Business below) or receive permission from the Assistant to the Dean to enroll in those business courses.

Transfer students are required to complete a minimum of 45 credits "in residence." At least 24 of these credits must be taken in the Business common core and major requirements. At least 9 of these 24 credits must be taken in the student's major.

Admission to the School of Business

Admission to the School of Business is separate from admission to the University. Application for admission to the School of Business shall be made by students the semester after they have earned 45 semester hours. Students must have completed or be currently enrolled in the following pre-business courses at the time of application:

General Education Requirements

Area A ENG 110, Freshman Composition
 MC 207, Managerial Communications OR
 COMM 280, Business and Professional
 Speaking

Mode 2 MATH 125, Applied Calculus I
 STAT 104, Elementary Statistics

Mode 7 ECON 200, Principles of Economics I
 ECON 201, Principles of Economics II

Business Requirements

AC 211, Introduction to Financial Accounting¹

AC 212, Introduction to Managerial Accounting¹

QA 201, Business Statistics

MIS 201, Introduction to MIS

LAW 250, Principles of Law

¹AC 201 and AC 202 will also satisfy the accounting requirement.

First priority for admission will be given to students who have met all pre-business course requirements and have earned a 2.70 cumulative grade point average. Other students who have less than a 2.70 but at least a 2.00 grade point average and who have met all the pre-business course requirements will be admitted on a space-available basis. Further information and applications for admission to the School of Business can be obtained in the Dean's Office.

Student Advising Program

Student advising and intervention is an integral and vital component of all School of Business students' experience. The Student Advising Program for business majors consists of the following components:

Initial Advising: Upon entry to CCSU, new and transfer students are scheduled individual appointments with an adviser in the Dean's Office to acquaint them with the academic standards and procedures. This orientation includes an overview of the School of Business, its majors and the requirements of the Planned Program, and an explanation of vital offices and University departments at CCSU.

Intervention: Each semester during their first and second year (up to 57 credits), pre-business students meet with a School of Business adviser in the Dean's Office to review their course selection, to discuss grade requirements and the transferability of courses, and to complete the admission process to the School of Business. This careful monitoring of students' academic progress, after the completion of 15, 30 and 45 credits, ensures that the students are following their Planned Program and are progressing satisfactorily. If an academic problem occurs, the adviser will intervene with future course selection and facilitate an academic support program for the student.

Admission to the School: The final component of the Student Advising program revolves around the application procedure for admission to the School of Business. This occurs after the student has completed 45 credit hours and has completed or is in the process of completing all pre-business requirements. Upon acceptance to the School of Business (see Admission to the School of

Business policy), students are advised by faculty members in their major department regarding course selection and career opportunities.

Names and locations of Business majors' academic advisers are posted in department offices and in the Office of the Assistant to the Dean (827-7683).

Curriculum

All students majoring in programs in the School of Business must complete requirements in General Education, courses in the Common Business core, and courses in a chosen major.

General Education Requirements

Mode 1:	Philosophical	3
Mode 2:	Mathematics-Logical* (MATH 125, STAT 104)	6
Mode 3:	Literary	6
Mode 4:	Artistic	6
Mode 5:	Historical	6
Mode 6:	Behavioral	6
Mode 7:	Social Scientific* (ECON 200, ECON 201)	6
Mode 8:	Natural Scientific	6
Area A:	Communications Skills* ENG 110, and MC 207 or COMM 280)	6
Area B:	Foreign Language/International	3
Area C:	Supplemental * ¹	6
Area D:	Physical Activities	2
Total		62¹

Common Business Core Requirements

AC	211	Introduction to Financial Accounting*	3
AC	212	Introduction to Managerial Accounting*	3
QA	201	Business Statistics*	3
MIS	201	Introduction to MIS*	3
LAW	250	Principles of Law*	3
QA	305	Production/Operations Management	3
FIN	300	Managerial Finance	3
MGT	301	Principles of Management	3
MKT	303	Marketing Principles	3
MGT	430	Strategic Management and Policy	3
Total		30¹	

Major Course Requirements

Major requirements are listed under the appropriate departments.

Required Courses in Major	27-30
Free Electives	6-9
Total Degree Requirement	122¹

*Pre-Business requirements.

¹General Education requirements include 6 credits for AC 201 and AC 202 or AC 211 and AC 212 which are also included in Common Business Core requirements.

Accounting

S. Moscové, *Chairperson*; R. T. Avritch, J. K. Bannon, G. Blankenbeckler, P. A. Budwitz, A. Cooperstein, J. Donadio, P. Donadio, D. Loss, T. McNulty, W. A. Parker, B. K. Reilly, M. Roxas, H. Shakun, J. Stoneback. (Dept. phone 827-7504)

The Accounting program prepares its graduates for advanced graduate study and professional careers in public, industrial, or governmental and other non-profit accounting. The program provides the background necessary in such diversified areas as cost accounting, auditing, taxes, budgeting, systems analysis and management advisory services.

The Accounting program satisfies the educational requirements of the Connecticut State Board of Accountancy for eligibility to take the Connecticut CPA examination. Information regarding Connecticut CPA requirements, as well as those of other states, may be obtained from the chairperson of the Accounting Department.

Students must complete the Common Business Core of 30 credits plus an additional 30 credits of specific Accounting course work as follows:

Accounting		Credits
AC 311	Intermediate Accounting I	3
AC 312	Intermediate Accounting II	3
AC 313	Intermediate Accounting III	3
AC 407	Advanced Accounting	3
AC 410	Auditing	3
AC 301	Cost Accounting I	3
AC 401	Federal Income Tax I	3
Choose one of the following courses ¹ :		3
AC 302	Cost Accounting II	
AC 402	Federal Income Tax II	
Directed Electives		6
Total		30

¹The course not chosen here may be used as a directed elective.

Directed Electives

The accounting program requires completion of 6 credits from the following list of courses. Consultation with an adviser is recommended if a student wishes to pursue a specific career goal.

AC 403	Estate Taxation	3
AC 408	Contemporary Accounting Problems	3
AC 330	Accounting for Non-Profit Institutions	3
AC 440	Accounting Information Systems	3
LAW 401	Legal Environments of Business	3
or one from above and one advanced finance course, or advanced MIS course		3
Total		6

Business Education

G. F. Claffey, *Coordinator (Phone 827-7683)*

The Business Education faculty offers programs to prepare students to teach business subjects in secondary schools. These programs are offered at the graduate level, but students may complete some of their teacher preparation requirements while they are undergraduates. In order to do this, it is important to plan one's program with a Business Education faculty member.

Students who plan to seek teacher certification should complete an undergraduate major in the School of Business.

Entrepreneurship

P. Sanders, *Coordinator (Phone: 827-7239)*

The Entrepreneurship program prepares graduates for advanced graduate study and for entrepreneurial careers in new venture creation or managing family-owned or other small business enterprises. The program provides a basic foundation in the knowledge necessary to search for and evaluate new venture opportunities, and to finance, operate and manage new or growing businesses. Students are required to complete a business plan and to complete a field study experience.

Students must complete the School of Business 30 credit Common Business Core plus the following 27 credits:

			Credits
ENT	301	Entrepreneurship and New Venture Creation	3
ENT	305	Financing Entrepreneurial Ventures	3
ENT	320	Managing a Growing Business	3
ENT	499	Field Study in Entrepreneurship	3
		Directed Electives	9
		Business Electives	6
		Total	27

Directed Electives

The Entrepreneurship program requires completion of 9 credits selected from the following list of courses:

ENT	410	Entrepreneurship and Family Business	3
AC	301	Cost Accounting I	3
AC	440	Accounting Information Systems	3
FIN	301	Intermediate Managerial Finance	3
FIN	310	Principles of Investments	3
MGT	305	Human Resource Development	3
MGT	426	Business Organizational Behavior	3
MKT	305	Consumer Behavior	3
MKT	340	Product Development/Management	3
MKT	423	Market Research	3

MIS	330	Information Systems — Analysis and Design	3
MIS	400	Decision Support and Expert Systems	3
		Total	9

Business Electives

Students must complete 6 credits by selecting any courses offered by the School of Business (except courses not available to Business majors).

Finance

Chairperson to be Named; M. M. Cutler, J. Fung, A. Hawruk, L. L. Lawson, E. T. Lynch, J. M. Sfiridis, L. K. Wang.
(Dept. phone 827-7317)

The Finance program prepares graduates for managerial careers in financial institutions, financial firms, and governmental organizations. Professionals in finance are responsible for evaluating the business and financial risks and returns faced by firms to direct business decisions. Using the theories of economics and the techniques of accounting and statistics, financial managers assist in the processes of funds acquisition, funds management and investment. Finance graduates usually pursue careers in corporate financial management, banking, insurance, investments, and government.

Students in Finance must complete the 30-credit Common Business Core requirements plus the following 27 credits:

			Credits
Finance			
FIN	301	Intermediate Managerial Finance	3
FIN	310	Principles of Investments	3
FIN	320	Financial Markets and Institutions	3
		Directed Electives	18
		Total	27

Directed Electives

The Finance program requires completion of 18 credits selected from the following list of courses. Consultation with an adviser is recommended if the student wishes to pursue a specific concentration or career goal.

AC	311	Intermediate Accounting I	3
FIN	400	Advanced Managerial Finance	3
FIN	410	Securities Analysis	3
FIN	430	International Financial Management	3
FIN	498	Finance Seminar	3
FIN	340	Insurance	3
FIN	420	Bank Management	3
FIN	490	Independent Study in Finance	3
ECON	450	Money, Credit and Banking	3
LAW	401	Legal Environments of Business	3
		Total	18

International Business

Chairperson to be Named; E. Bernstein, G. F. Claffey, F. Cohen, W. A. Parker, P. Sanders.
(Dept. phone 827-7239)

The International Business program prepares its graduates for advanced graduate study and for entry-level positions in global and international business enterprises. The program provides students with a broad general education which includes language, culture and international courses and, at the same time, provides students with a core of international business courses and selected specializations in the functional business areas. Students will be provided with study abroad opportunities.

Students in International Business must complete the 30-credit Common Business Core requirements and the following 27 credits:

International Business			Credits
MGT	321	International Management	3
MKT	321	International Marketing	3
FIN	430	International Financial Management	3
ECON	430	International Economics	3
International Functional Specialization			9
Business Electives			6
Total			27

International Business Functional Specializations

Students will select one of the following functional specializations:

- Accounting (AC 301, 311, and 330)
- Finance (FIN 301, 310, and 320)
- International (IB 491, 495, and 498 or an advanced business course approved by the chairperson)
- Management (either MGT 345, 348, and 426; or MGT 305, 425, and 431)
- Marketing (MKT 423, either MKT 305 or 413, and one of MKT 306, 307, 330, 340, 350, 460, 495)
- Management Information Systems (MIS 330, 410, and one of MIS 400, 430, 440, or QA 420)

Total 9

Business Electives

Students must complete 6 credits by selecting any courses offered by the School of Business (except courses not available to Business majors).

Management and Organization

R. C. Dethy, *Chairperson;* E. Baten, R. Baughman, S. Cavaleri, D. Fearon, W. J. Ferguson, R. Logozzo, L. E. Short. (Dept. phone 827-7685)

The Management and Organization Department prepares students for entry-level positions and for advanced graduate studies in business leading to management careers in business, government and not-for-profit organizations. The program provides a basic foundation in management theory and practices. Program graduates can expect to pursue careers in such diverse areas as human resources management, small business management, international management or not-for-profit management.

Students in the Management major must complete the 30-credit Common Business Core requirements and the following 27 credits:

Management Core		Credits
MGT 345	Organization Theory	3
MGT 348	Management Systems	3
MGT 426	Business Organizational Behavior	3
MGT 490	Management Topics or	
MGT 498	Management Seminar	3
Management Specializations		9
Business Electives		6
Total		27

Management Specializations

General Management: For persons interested in gaining a broad knowledge base and understanding of the multiple dimensions of management theory and practice.

Three courses from the following:

MGT 305	Human Resource Management	3
MGT 321	International Management	3
MGT 403	Social Issues for Managers	3
MGT 425	Management and Collective Bargaining	3
MGT 431	Compensation and Benefits	3
MGT481	Management of Non-Business Organizations	3
MGT 490	Management Topics	3
MGT 494	Entrepreneurship	3
MGT 498	Management Seminar	3
Total		9

Human Resources Management: For persons interested in preparing for careers in human resources management or personnel administration in a variety of business and non-business settings.

		Credits
MGT 305	Human Resource Management	3
MGT 431	Compensation and Benefits	3
Plus at least one course from the following:		
COMM 353	Interviewing Theory and Practice	3

MGT 403	Social Issues for Managers	3
MGT 425	Management and Collective Bargaining	3
		Total 9

International Management: *For persons interested in preparing for careers in international divisions of multinational corporations, foreign exchange divisions of banking institutions, and overseas positions in government organizations.

		Credits
MGT 321	International Management	3
Plus at least two courses from the following:		
ANTH 339	Work and Culture	3
FIN 430	International Financial Management	3
MGT 403	Social Issues for Managers	3
MKT 321	International Marketing	3
PS 339	International Law	3
		Total 9

Management of Productivity: For persons preparing for careers in manufacturing and high technology settings.

		Credits
IT 364	Statistical Quality Control	3
IT 458	Motion and Time Study	3
IT 480	Robotics	3
		Total 9

Decision Management and Management Science:

for persons preparing for careers in the management of information systems and interested in acquiring knowledge of the scientific bases for decision-making (See department chairperson for details).

Management for Not-For-Profit Institutions: For persons interested in preparing for administrative careers with institutions performing public services, such as governmental units, labor associations, foundations and charitable organizations.

		Credits
MGT 481	Management of Non-Business Organizations	3
Plus at least two from the following:		
AC 330	Accounting for Non-Profit Institutions	3
MKT 480	Marketing for Non-Profit Organizations	3
PS 340	Public Administration	3
MGT 403	Social Issues for Managers	3
		Total 9

Business Electives: Students must complete 6 credits by selecting any courses offered by the School of Business (except courses not available to Business majors).

*Students who select the International Management specialization are encouraged to take foreign language courses, which may be used as free elective credit.

Management Information Systems

M. J. D'Onofrio, *Chairperson*; C. A. Bononi, R. Cardinali, W. A. Ceccucci, R. H. Crouse, R. D. Frost, W. P. Hinds, R. C. Vellore.
(Dept. phone 827-7985)

The Management Information Systems (MIS) program prepares graduates for advanced graduate study and careers in enterprises as information systems specialists. Students pursue careers in the areas of application programming, data base administration, information systems management, and systems analysis and design.

The program emphasizes the importance of information as an organizational resource to be managed for the generation of timely, quality information for business decision making. The use of information in business decision making throughout the functional areas (including accounting, finance, management and marketing) of an enterprise is stressed.

Students must complete the 30-credit Common Business Core requirements plus the following 30 credits:

		Credits
MIS 210	Application Program Development I	3
MIS 211	Application Program Development II	3
MIS 330	Information Systems-Analysis and Design	3
MIS 331	Structured System Analysis and Design	3
MIS 340	Database Program Development	3
Directed Electives or Specialization		9
Business Electives		6
		Total 30

Directed Electives

The Management Information Systems (MIS) program requires completion of 9 credits selected from the following list of courses. Consultation with an adviser is recommended if the student wishes to pursue a specific concentration and career goal.

		Credits
MIS 400	Decision Support and Expert Systems	3
MIS 410	Distributed Data Processing	3
MIS 420	EDP Audit Controls	3
MIS 430	Information Systems Planning	3
MIS 440	Information Resource Management	3
MIS 460	Emerging Technologies for Business	3
MIS 494	Independent Study in MIS	3
MIS 498	Information and Decision Sciences Seminar	3
		Total 9

MIS Specialization

Quantitative Aspects of Decision-Making

Students may pursue a specialization in the quantitative aspects of decision making.

		Credits
QA 420	Quantitative Analysis for Business Decision-Making	3
QA 425	Business Simulation Analysis	3
	Directed Elective	3
	Total	9

Business Electives

Students must complete 6 credits by selecting any courses offered by the School of Business (except courses not available to Business majors).

Marketing

C. Prohaska, *Chairperson*; E. Astarita, A. Cortes, R. DeCormier, B. Lofman, D. Scherban, Y. Zhang.
(Dept. phone 827-7625)

The Marketing program prepares graduates for advanced graduate study and careers in advertising and promotion, distribution, marketing management, marketing research, retailing and sales.

Students must complete the 30-credit Common Business Core requirements plus the following 27 credits:

Marketing		Credits
MKT 305	Consumer Behavior	3
MKT 306	Advertising and Promotion	3
MKT 423	Marketing Research	3
MKT 450	Strategic Marketing	3
	A marketing specialization and/or directed electives	9
	Business electives	6
	Total	27

Marketing Specializations:

Retailing (9 credits)

MKT 311	Retailing	3
MKT 313	Merchandising	3
MKT 443	Advanced Concepts in Retailing	3

Sales (9 credits)

MKT 330	Sales Technique and Training	3
MKT 307	Sales Administration	3
MKT 413	Industrial Marketing	3

International Marketing (9 credits)

MKT 321	International Marketing	3
MKT 460	Export Marketing	3

Plus ONE of the following:

ECON 430	International Economics	3
FIN 430	International Financial Management	3
MGT 321	International Management	3
MKT 495	Field Studies in International Marketing	3

Total 9

As additional business courses with an international orientation are developed, these will be added to the selection of courses which can be used to complete the specialization. (One non-business course may be used with permission of the chairperson).

For the International Specialization, Modes 2 and 7, and Areas A and C will be filled per School of Business specifications. It is suggested that Modes 3, 4, 5 and 6 be filled using a minimum of one international-designated course for each mode.

Directed Electives

MKT 307	Sales Administration	3
MKT 311	Retailing	3
MKT 313	Merchandising	3
MKT 321	International Marketing	3
MKT 330	Sales Techniques	3
MKT 340	Product Development and Management	3
MKT 350	Distribution Management	3
MKT 413	Industrial Marketing	3
MKT 443	Advanced Concepts in Retailing	3
MKT 460	Export Marketing	3
MKT 480	Marketing for Non-Profit Organizations	3
MKT 494	Independent Study in Marketing	3
MKT 495	Field Studies in International Marketing	3
MKT 498	Marketing Seminar	3

Total 6-15

Concentrations for Non-Business Majors

Concentrations in Business require 18 credits of Business courses, and are not available to students in the School of Business.

Non-business students may complete the General Business concentration. The Marketing concentration is available only to Communication majors.

Students enrolling in the concentrations must either complete the admission requirements for the School of Business or receive permission from the Assistant to the Dean, School of Business, to register for 300- and 400-level business courses. Students who have not completed the School of Business admission requirements will be expected to have taken prerequisites listed below before enrolling in certain business courses. The non-business prerequisites may be taken as part of the student's General Education requirements.

General Business

AC 211, MIS 201², FIN 300¹, MGT 301, MKT 303¹, and any one additional course offered by the School of Business. **Total 18**

Marketing

This is a special concentration available only to Communication majors. The concentration requires 12 credits of Marketing courses and 6 credits from other Business areas. Students are required to take appropriate electives for all business courses. Contact the chairperson of the Marketing Department for full particulars. **Total 18**

¹Prerequisites: FIN 300 — AC 201 or 211, ECON 200 and 201, MATH 125, STAT 104; MKT 303 — ECON 201, ENG 110, STAT 104.

²Students majoring in Computer Science and concentrating in Business must substitute a Business course for MIS 201 approved by the Management Information Systems chairperson.

Student Organizations

A variety of student honorary and professional organizations have been organized in the School of Business to reflect the interest of students in a professional school. Experience and leadership gained from participation in these organizations provide students with important life-time skills. They are:

Accounting Society, Finance Management Association, Association of Systems Management, Delta Mu Delta and Delta Pi Epsilon.

Graduate Programs in Business

Graduate programs are available in Organization and Management with a General Business Management option and Business Education. See the Graduate Catalog for details of these programs, or the Director of Graduate Business Programs.

Management and Professional Development Center

The School of Business has a Center for Management and Professional Development which sponsors not-for-credit offerings in business and industry. Detailed information may be obtained by contacting the Entrepreneurial Support Center (229-8580).

Entrepreneurial Support Center

The School of Business Entrepreneurial Support Center, located with the Office of the New Britain Chamber of Commerce, serves and enhances the enterprising qualities of New Britain- and central Connecticut-based business organizations. The center offers counseling support and business expertise to start-up and existing small businesses, and provides a full spectrum of education and training activities for enterprise development. The center also utilizes business student interns and graduate assistants in a learning laboratory environment to assist in the delivery of the center's services. Detailed information may be obtained by contacting the Entrepreneurial Support Center (229-8580).

Institute for Business Studies

The Institute for Business Studies was established in 1991 to conduct research on international business and trade issues and to design and implement international management development programs. The Institute, in collaboration with Wroclaw Technical University, Wroclaw, Poland, is offering a program to introduce contemporary business principles and practices to faculty, students, and alumni of Wroclaw Technical University.

SCHOOL OF EDUCATION AND PROFESSIONAL STUDIES

Richard I. Arends, *Dean*

Elene S. Demos, *Associate Dean*

Ronald J. Moss, *Assistant Dean*

Phone: 827-7244

Departments:

Athletics, Counselor Education and Human Services, Educational Leadership, Nursing, Physical Education and Health Fitness Studies, Reading and Language Arts, Teacher Education and Special Education.

The School of Education and Professional Studies offers programs leading to the the Bachelors of Science Degree in Education, Nursing, Heath Fitness, and Athletic Training. In addition the School has a variety of programs that lead to teaching certification in the state of Connecticut. Currently, the School of Education and Professional Studies is organized into eight academic departments:

- Athletics
- Counselor Education and Human Services
- Educational Leadership and Technology
- Nursing
- Physical Education and Health Fitness Studies
- Reading and Language Arts
- Special Education
- Teacher Education

The departments of Counselor Education, Educational Leadership, and Reading and Language Arts do not offer undergraduate programs. Information about these departments and their graduate programs can be found in the Graduate Catalog.

The aim of programs in the School of Education and Professional Studies is to prepare individuals who are both liberally educated and who are in command of the requisite professional knowledge to be able to provide exemplary practice in their chosen career field. Programs and curricula in professional schools draw their content from the theoretical foundations in the arts and sciences, as well as from the world of professional practice.

Degree Programs and Certification

To understand fully programs in the School of Education and Professional Studies requires understanding the distinctions made between **obtaining a degree** from Central Connecticut State University and **obtaining a teaching certificate** from the state of Connecticut. Also, it requires understanding the differences between **acquiring a subject-matter major** and **acquiring a degree in education**.

- Central Connecticut State University has the authority to grant a bachelor's **degree** to any student who successful completes all the requirements of a particular program of studies. A degree, however, does not automatically lead to a teaching certificate.
- The state of Connecticut grants the teaching **certificate** after a candidate completes a bachelor's degree and an approved program of professional studies, passes required tests for teachers, and is recommended by the Dean of the School of Education and Professional Studies.
- Every elementary and secondary school teacher in the state of Connecticut is required to have a **major** in a particular subject field. This is referred to as the **subject matter major**. Requirements for the various subject matter majors are described elsewhere in this catalog under elementary and secondary education.
- Teacher candidates at Central Connecticut State University, in addition to acquiring a subject matter major, also are required to fulfill professional coursework and laboratory experiences in education which lead to a **degree in education** and to certification.

Categories of Students and Their Programs

Students in the School of Education and Professional Studies are pursuing studies in one of several categories:

- As an undergraduate major in a particular department which leads to a **Bachelor of Science degree**. This category would include athletic training and health fitness majors in the Department of Physical Education and Health Fitness Studies, and it would include nursing majors in the Department of Nursing who earn a Bachelor of Science in Nursing. These programs do not lead to certification.
- As an undergraduate, major in education in a particular department which leads to a **Bachelor of Science degree and to certification** as a teacher in the state of Connecticut. This category would include students in elementary education, all fields in secondary education, all fields that lead to a K-12 certification, and special education.

- As a postbaccalaureate certification candidate (student who already has a bachelor's degree) in teacher education which leads to **certification with no additional degree**. This category would include all students in postbaccalaureate elementary, secondary, K-12 programs, and special education.

Each of these categories is explained separately below.

Undergraduate Degree Programs Without Teacher Certification

Three programs are offered which lead to a bachelors of science degree, but do not include any type of certification:

Athletic Training: A non-teacher certifiable program which prepares students for employment and athletic trainers in physical therapy units, schools and colleges, and the professional sport ranks. Students in this program are given the necessary cognitive and practical experiences for certification by the National Athletic Trainers Association (NATA).

Health Fitness: A non-teacher certifiable program which prepares students for employment in fitness centers in the corporate and/or commercial sectors. Students enrolled in this program are trained as exercise technicians who will work as exercise physiologists through exercise prescription, planning and implementing individualized fitness programs and educating for leading a healthier lifestyle.

Nursing: The Bachelor of Science in Nursing program is designed to provide an upper division nursing curriculum to registered nurses who graduate from associate degree or hospital nursing programs. The BSN program provides advanced nursing knowledge and skills with opportunity to practice in a variety of clinical settings. The overall goal of the curricula in the BSN program is to develop professional nursing characteristics necessary to positively impact health care delivery. The curriculum focuses on the development of characteristics intrinsic to the generalist level of professional nursing practice.

Students interested in these programs should consult the admissions and graduation requirements for each particular program on pages 64 and 66 of this catalog.

Undergraduate Degree Programs Leading to Teacher Certification

The following programs lead to a bachelor's degree and to teacher certification:

- Elementary Education
- Special Education
- Secondary Education in the following fields: Art, Biology, Business*, Chemistry, Earth Science, English, French, General Science, German, Health Occupations Education, History, Italian, Mathematics, Music, Physical Education, Physics, Social Science, Spanish.
- K-12 Education in the following fields: Art, Music, Physical Education, Technology Education.

Although requirements vary from program to program, in general each undergraduate teacher education program has the following characteristics and procedures:

General Education. All teacher education candidates are expected to satisfy the same general education requirements of all CCSU students. Most of this work is completed during the student's first three years at CCSU or at a community college.

Subject Matter Major. All teacher education candidates are required to become competent in the subject fields they will teach. These requirements vary from field to field and are described elsewhere in this catalog.

Selective Admissions. The state of Connecticut requires that students be admitted to programs in teacher education only after they have met particular criteria. These criteria and the admission process are described below. It is important to understand that admission as an undergraduate student at CCSU does not automatically guarantee admission to a teacher education program. Also it is important to understand that the selective admission process **requires considerable advanced planning**.

Restricted Professional Coursework. Most courses offered in particular teacher education programs are closed to all students except those who have been **formally admitted** to a teacher education program. Students who have not been admitted to a teacher education program should not enroll in restricted courses. They will be removed if they do.

*The Business Education faculty offers programs to prepare students to teach business subjects in secondary schools. Students may complete some of their teacher preparation requirements while they are undergraduates. Most work, however, is done at the graduate level. Students who plan to seek teacher certification should complete an undergraduate major in business. Please contact the Coordinator for Business Education to learn more about this program at 827-7683.

Retention Criteria. Once admitted to a particular teacher education program a teacher candidate is expected to maintain a (2.7) grade point average. If a candidate's GPA drops below this level he or she **may** be denied enrollment to restricted courses until the GPA reaches the approved level.

The Path to Admission Into Teacher Education for Undergraduate Students

The School of Education & Professional Studies has a set of procedures for admitting students to particular teacher education programs leading to teacher certification. These procedures, many of which are governed by state of Connecticut regulations, are rather complex and require full understanding. Admission in a timely fashion also requires a degree of advanced planning on the part of teacher candidates. These procedures described below **do not** apply to programs in athletic training, health fitness, or nursing. These programs have their own admission procedures and are described elsewhere in this catalog. For any aspect of the admission process which require clarification, please contact the Assistant Dean of Education.

Preparing to be a teacher and being admitted into a teacher education programs consist of the following phases:

Phase I: Pre Teacher Education. When students first enter the University or one of the Community Colleges, they are not education majors. Instead, they select a subject matter major and pursue (under the guidance of an advisor in the department where the major is housed) coursework in general education and in the major. Toward the end of the second or in the third year of study, most full-time students are ready to request admission to a particular teacher education program. Prior to this time, students are required to:

- Complete **45 credits** (of which 15 have been earned at Central Connecticut State University). Graduates of Connecticut Community Colleges may have this requirement waived. See the Assistant Dean of Education for details.
- Pass the state's **CONNCEPT** (basic skills test in reading, writing and mathematics) or be qualified to have this test waived. This must be done **at least one semester before** application can be made to the Professional Program. CONNCEPT may be waived if:

(1) a student has a Scholastic Aptitude Test (SAT) score totaling 1000 with a score of no less than 400 in either the verbal or math subtests;

- (2) a student has an American College Test (ACT) composite score of no less than 25, with no less than 22 on the English subtest and 19 on the math subtest;
- (3) a student passes a similar test in another state with which Connecticut has certification reciprocity agreements, or
- (4) a student has a Prueba de Aptitud Academica (PAA) score equivalent to a SAT score of 1000 with neither the math nor verbal subtest scores below the equivalent of 400.

CONNCEPT is administered by the state of Connecticut and is currently offered three times a year. Registration booklets may be secured from the table outside the Dean's office in Barnard 248. Waiver applications and instructions are also found in the registration booklet.

- Have a minimum of a **2.70 grade point average** for all college work.
- Complete courses specified by particular departments (elementary education, special education, or the subject major major) as **prerequisites** for application to a teacher education program. Consult with the Chair of the Department or your advisor for specifics.
- Fulfill certain **laboratory requirements** involving working with children. Details are available from the appropriate department and are listed on the Professional Program applications packet as well.

Phase II: Application. Phase II consists of the actual process of making application. Admission to teacher education is done twice a year. Deadline for Fall semester admission is October 1, and applications for Spring semester are due by March 1. Students should apply for admission to teacher education at least one year prior to the semester in which they plan to student teach. Application packets are available on tables outside the Dean's Office in Barnard 248. Follow carefully all instructions.

- The application packet includes: instructions; an application blank; a transcript release form, forms for letters of recommendation from persons who can attest to student's suitability to be a teacher; directions for writing an essay which shows command of English. The essay also asks the student to provide reasons for becoming a teacher and to describe experiences working with children. Some departments have special assignments (mathematics majors must write two essays) which must be completed.

- Once the application packet is completed, it will be reviewed by the Assistant Dean. CONNCEPT and grade point average requirements will be verified. The packet will then be forwarded to the appropriate department for review and evaluation. Once the department has completed its evaluation, the application packet and the department's recommendation are returned to the Assistant Dean for his review. A letter will be sent to each student indicating whether the student has been admitted, deferred until certain specified requirements have been fulfilled, or rejected.

Phase III: Admittance. Students receiving a letter granting admission to a Professional Program are considered "admitted students." Students admitted may now start taking the restricted professional courses in education and start participating in required advanced laboratory experiences.

Postbaccalaureate Programs Leading to Teacher Certification Only

Some students interested in teacher education already have a bachelor's degree. Working through Central's Postbaccalaureate Certification Program requires a significant degree of advanced planning on the part of the candidate.

Post baccalaureate students can obtain certification in the following fields:

- Elementary Education
- Special Education
- Secondary Education in the following fields: Art, Biology, Business Education, Chemistry, Earth Science, English, French, General Science, German, Health Occupations Education, History, Italian, Mathematics, Music, Physical Education, Physics, Social Science, Spanish.
- K-12 Education in the following fields: Art, Music, Physical Education, Technology Education.

Because they have already earned a bachelor's degree, special program rules apply to baccalaureate students and the admission process differs somewhat as compared to the process for undergraduates. These procedures are described below:

Phase I: Application to the Graduate School and to Teacher Education: Technically, postbaccalaureate students are considered graduate students and so must apply to the Graduate School for admission. Details about admission requirements and procedures are available from the Office of Graduate Studies in Davidson Hall (the Administration Building). Candidates must apply to the School of Graduate Studies and Research by May 1 for fall semester admission and by December 1 for spring semester admission.

At the same time, they should apply for admission to the Professional Program by completing an application package for the Professional Program. The state's CONNCEPT (basic skills test in reading, writing and mathematics) must also be satisfied prior to the application process, and a copy of the CONNCEPT "Pass" letter or "Waiver" letter must be attached to the School of Education's Professional Program application. See the CONNCEPT section in the Undergraduate Admissions section, above, for waiver qualifications. Applications are available on the tables outside Barnard Hall 248 or may be obtained by writing to the Dean of the School of Education and Professional Studies at Central.

While the application packets differ from program to program, postbaccalaureate students must meet the 2.7 grade point average requirement. All candidates must have previously satisfied the CONNCEPT requirement [and include evidence that they have done so in their Professional Program Application packet], and the appropriate essays and recommendations are also required. Some departments require that experience with children be verified; consult the instructions provided with each packet.

Admission to the Graduate School as a postbaccalaureate student will depend upon and follow the School of Education and Professional Studies' Professional Program evaluation and admission decision.

Phase II: Program Planning. Postbaccalaureate students must meet all course and laboratory requirements specified in particular teacher education programs. Even though they already have a bachelor's degree, students in postbaccalaureate programs also are required to satisfy certain general education and subject matter major requirements — some of these requirements are deemed important by particular departments at CCSU; others are deemed important by the state of Connecticut. Putting together a "Program of Study" is the process of ensuring students that they will satisfy all certification requirements. The "Program of Study" also becomes the contract between the baccalaureate student and his or her adviser.

- Each "Program of Study" must be approved by the School of Graduate Studies. Students are responsible to insure that their "Program of Study" meet all certification requirements that will be in effect at the time they plan to complete their certification programs. Because Connecticut certification regulations are subject to change, and because the regulations that apply are those in effect at the time the student applies for certification, it is essential that students review their "Program of Study" with their advisor regularly.

- Postbaccalaureate students should be sure that they have previously had, or that their “Programs of Study” includes, the following general education courses: at least 39 credits of liberal arts course work including a U.S. History survey course, and courses in five of the following areas: English, mathematics, natural sciences, fine arts, social sciences, and foreign language. These are requirements of the state of Connecticut and cannot be waived by advisors or the university. A course in developmental or life span psychology is a prerequisite for Educational Psychology.
- “Programs of Study” for all teacher education candidates, except for those in Special Education, must include: SPED 470, EDF 400 or 401, a course in Educational Psychology (EDSC 256, PSY 526, or EDEL 355), methods courses, student teaching, a course in computer applications (such as ETM 200 or ETM 502), and other courses as required by the student’s advisor. Special Education programs have different requirements. See the Chairperson of Special Education for specifics.
- Postbaccalaureate students seeking certification in Art, Music, Physical Education, and Technology Education should meet with the chair of the department that houses their program for advice on how to complete the “Program of Study.”
- Postbaccalaureate students in elementary and secondary education should meet with the Postbaccalaureate Advisor in the School of Education and Professional Studies to complete the “Program of Study.”

Phase III. Admission to Teacher Education. Admission to the Graduate School and preparing a “Program of Study” does not guarantee a student admission into a particular teacher education program. Postbaccalaureate students should follow the same procedures as those described for undergraduates *on pp.* of this catalog. As described previously, students should seek admission to the Graduate School and to a teacher education program at the same time.

Restricted Professional Coursework. Most courses offered in particular teacher education programs are closed to baccalaureate students except those who have been **formally admitted** to a teacher education program. Students who have not been admitted to a teacher education program should not enroll in restricted courses. They will be removed if they do.

Retention Criteria. Once admitted to a particular teacher education program a baccalaureate student are expect-

ed to maintain a specified (2.7) grade point average. If a student's GPA drops below this level he or she may be denied enrollment to restricted courses until the GPA reaches the approved level.

Appeals Process for All Students and Programs

Students who are not allowed to apply to the Professional Program because they fail to meet a requirement and students who are not admitted to the Professional Program may appeal to the School of Education and Professional Studies Appeals Committee. Information about the appeals process is available from the Assistant Dean, with whom the actual appeal is filed.

Connecticut Certification Procedures

To be eligible to teach in the public schools of the state of Connecticut, a student must meet the certification requirements of the State Board of Education. Certification regulations are subject to change and, under current state practice, students are subject to the certification regulations in effect **at the time they apply for certification.**

Recommendations for certification at Central Connecticut State University are made by the Dean of Education and Professional Studies through the Office of the Assistant Dean. Questions concerning certification that cannot be answered by your department can be addressed to the Assistant Dean.

- Application for certification is made by completing a Certification Application Form. **Undergraduates** obtain these forms and return them to the **Office of the Registrar** which will forward the application and other related documents to the Assistant Dean of Education for review and approval. Once approved, the application for certification and the CCSU transcript will be mailed to the student. The student then mails these documents, along with transcripts from other institutions attended, and a bank draft in the appropriate amount, to the Bureau of Teacher Certification and Accreditation. Certificates are mailed out by that state agency after they review and approve the application.
- **Postgraduate certification students** obtain the certification application from the **Office of the Dean** and return the completed application to the same office.

While Central Connecticut State University provides an institutional recommendation for students completing its certification programs, the state of Connecticut’s Bureau of Certification makes final determinations about who is eligible to receive certification.

Out of State Certification Procedures for CCSU Graduates

Information about out-of-state certification is available in the University Placement Office. Any application or portion of an application that requires "interstate reciprocity" information or affirmation concerning the completion of an "Approved Program" should be referred to the Assistant Dean with full information about the graduate's name at the time of completion of Central's program, date of program completion, social security number, current name and address, and any particulars concerning the other state's information requirements.

Educational Leadership

R. Zieger, *Chairperson*; C. Carter, T. Johnson, B. Morrison, W. Osterndorf, A. Rigazio-Digilio, A. Vaillant. (Dept. phone 827-7606)

The Department of Educational Leadership offers a Master of Science in Educational Technology and Media, a Master of Science in Educational Leadership, and a Sixth-Year Certificate leading to certification as an intermediate administrator or supervisor.

The department offers undergraduate courses in curriculum development and research in education.

Counselor Education and Human Services

P. E. Tarasuk, *Chairperson*; A. Albany, B.W. Carroll, C. Cyrus, S. Rosenberg. (Dept. phone 827-7226)

The Department of Counselor Education and Human Services offers concentrates to students seeking a Master of Science degree in Counseling leading to initial certification as a school counselor, and study in the areas of Higher Education, Rehabilitation and Marriage and Family.

Reading and Language Arts

B. A. Davies, *Chairperson*; H. Abadiano, D. D. Hall, J. Kotsaftis, D. A. Monti, P. L. O'Brien. (Dept. phone 827-7584)

The Department of Reading and Language Arts offers at both the undergraduate and graduate levels courses in teaching reading and language arts.

At the undergraduate level required courses and elective courses are provided for students preparing to become teachers.

At the graduate level the department offers a master's degree and a sixth-year certificate program leading toward certification as a remedial reading and remedial language arts teacher, and a reading and language arts consultant.

Special Education

L. Snyder, *Chairperson*; H. S. Apthorp, B. T. Bard, V. W. Dethy, F. W. Fischer, A. J. Wolcott, M. J. Williams (joint appointment). (Dept. phone 827 -7558)

The Department of Special Education is responsible for undergraduate courses and a certification programs in Special Education. Students may select Special Education as a major and will be required to receive certification in Special Education as part of the major.

Criteria for Acceptance

Requirements for students who wish to be certified in Special Education:

1. Formal acceptance into the Professional Program.
2. Assignment of an adviser in Special Education to create a planned program of study.
3. Documentation of 30 hours direct experience with regular education students and 10 hours with special education students.

Program Requirements

Requirements for Special Education Majors

A. Professional Requirements (9 credits)

SPED	470	Education of the Exceptional Learner	3
RDG	200	Developmental Reading in Elementary School	3

and one of the following:

MATH	103	Number Systems	3
MATH	203	Logic and Geometry	3
MATH	303	Learning and Curriculum Studies in Mathematics	2
RDG	344	Teaching Intermediate Reading	3
RDG	440	Teaching Reading in Secondary School	3

B. Specialization Requirements (36 credits):

SPED	480	Characteristics and Education of the Emotionally Disturbed	3
SPED	481	Characteristics and Education of the Learning Disabled	3
SPED	482	Characteristics and Education of the Mentally Retarded	3
SPED	483	Applied Behavioral Analysis in Educational Settings	3

SPED 484	Educational Assessment of the Exceptional Learner I	3
SPED 485	Educational Assessment of the Exceptional Learner II	3
SPED 486	Methods and Materials for the Exceptional Learner	3
SPED 487 ²	Program Planning and Curriculum for the Exceptional Learner	3
SPED 488	Practicum with Exceptional Learners I	6
SPED 489	Practicum with Exceptional Learners II	6

Students majoring in Special Education may select a concentration from a variety of academic disciplines outside of the School of Education and Professional Studies. They should consult the catalog and their Special Education adviser.

NOTES: 1. It is the student's responsibility to see his/her adviser on a regular basis as program policies and procedures are subject to change.

2. Students should consider prerequisite requirements before registering for courses. Numerical listing does not necessarily indicate correct sequence.

3. Students must maintain a 2.7 overall average in Special Education courses in the major to be recommended for certification.

4. Students must earn a minimum of 1.7 in any Special Education course, and 2.0 in the Professional Education requirements and concentration.

Teacher Education

Chairperson To Be Named; E. Aaronsohn, T. Andrews, M. Ferrara, M. Hott, M. Howell, E. Joyce, L. D. Klein, C. Koskoff, P. Lemma, T. Mason, D. Mulcahy, K. Olson, S. Seider, C. Shmurak. (Dept. phone 827-7600)

The Department of Teacher Education is committed to the preparation and continuing professional education of those students involved in early childhood, elementary and secondary teaching programs. The department consists of the following four divisions:

- Division of Elementary and Early Childhood Education
- Division of Secondary Education
- Division of Educational Foundations
- Division of Clinical Practices

Division of Elementary and Early Childhood Education

P. Lemma, *Coordinator* (827-7582); E. Aaronsohn, M. Ferrara, M. Hott, M. Howell, E. Joyce, C. Koskoff, P. Lemma, T. Mason, S. Seider.

The Division of Elementary and Early Childhood Education believes that teacher preparation is a developmen-

tal process. Our program requires students to attain knowledge in a wide variety of subject areas as well as pedagogical knowledge. Preservice teachers are expected to integrate knowledge obtained from course work with experiences that provide opportunities for exploration, reflection, and decision-making.

All students entering the certification program in elementary education must choose a subject matter major. Information about subject matter majors which are applicable to the elementary education certification program is available in the Department of Teacher Education — Barnard 277. Specific courses in the professional education program and the sequence of these courses will also be provided by the Department of Teacher Education.

ACADEMIC REQUIREMENTS

1. General Education

General Education includes the modal and area requirements for baccalaureate degree candidates. Specific courses are required to meet the General Education requirement and to meet prerequisites in certain professional courses. These include ENG 110, MATH 103 and 203, a 200-level or above literature course, HIST 261 or 262¹, PSY 235 or 236, GEOG 110 or 120 or 330, BIO 211, ESCI 111 or other Earth Science course. All courses listed above must be completed prior to the submission of an application to the Professional Program. (In addition to these courses, there will be specific courses in the subject matter major and in education which must be completed prior to applying to the Professional Program.)

¹HIST 261 or 262 should not be taken in the freshman year.

2. Subject Matter Major

All students planning to teach in the elementary school must have a single subject matter major or an interdisciplinary subject matter major. The subject matter majors, from which students may choose, are listed below:

Interdisciplinary Subject Matter Majors

Fine Arts

Art

Music

Theatre

Mathematics and Science

Mathematics with Science and Geography

Modern Languages

French

German

Italian

Spanish

Sciences

Science with Biology Core

Science with Chemistry Core

Science with Computer Science Core

Science with Earth Science Core

Science with Physics Core

Natural Science: Environmental Interpretation

Social Science-History

Subject Matter Majors

Biology
Earth Science
English
Geography/General-Regional
History
Mathematics
Physics
Psychology
Spanish

A more complete description of each major is available from the department offering the major and from the Department of Teacher Education. Specific requirements may pertain to the specific subject matter majors; therefore, contact the appropriate department for explanations.

3. Professional Education

Professional Program: specific requirements for acceptance to the Professional Program are listed in the beginning of this section. The Department of Teacher Education requires students to be accepted to the Professional Program before taking 300- and 400-level education courses (exception: SPED 470). Continuing status in the Professional Program requires a grade of C- or better in all 300- or 400-level professional program courses.

Students are responsible for meeting the state health certification requirement. See your adviser for details.

One certification endorsement level (PreK-6) is available to students at this time. Other levels may be available at a later date. Please see the Department of Teacher Education for this information. Course requirements are:

Pre-Kindergarten Through Grade Six

EDEL 210	Elementary Teaching as a Profession: Analysis and Reflection	3
ETM 200	Intro to Microcomputers in Education	1
RDG 200	Developmental Reading in Elementary School	3
SPED 470	Educating the Exceptional Learner	3

The following courses require acceptance into the Professional Program:

RDG 330	Teaching Language Arts	3
EDEL 355	Learning Theories and the Principles of Elementary Education and Application to the Classroom	3
EDEL356	General Methods in Elementary Education	3
MATH 303	Learning and Curriculum Studies in Mathematics	2
SCI 412	Learning and Curriculum Studies in Science	2
EDF 400	Philosophy of Education OR	3
EDF 401	Foundations of Education	
EDEL 402	School Health	2
EDEL 411	Student Teaching (Elementary) and Student Teaching Seminar Lab	8

The Department of Teacher Education has materials which describe the certification program, required courses and their sequence, and the prerequisites for acceptance into the Professional Program. A handbook is available in the Department, Barnard 277. During each semester, advising sessions are provided to assist students as they proceed through their course of study.

NOTE: The Department of Teacher Education has temporarily suspended its programs leading to certification in Early Childhood Education and Middle School Education. It is anticipated that these programs will be resumed shortly.

Student Teaching —

See DIVISION OF CLINICAL PRACTICES

Division of Secondary Education

C. Shmurak, *Coordinator*; M. Ferrara, K. Olson.
(Div. phone 827-7898)

The Division of Secondary Education is responsible for coordinating the curricula and providing counseling for majors in Secondary Education programs toward the fulfillment of their requirements in Professional Studies in their Bachelor of Science degree program. General Education advisement is done by an assigned adviser in an academic department. In general, majors in Secondary Education teacher programs who satisfactorily complete their planned program of studies are certified to teach in middle schools, and junior and senior high schools in an area of specialization. Physical Education majors, Technology Education majors, Music and Art majors are certified to teach in grades K-12.

Major in Secondary Education Programs, B.S.

The major in a Secondary Education program must complete 130 credits for the Bachelor of Science degree and certification for teaching an area of specialization in the secondary schools.

This program of studies includes four principal areas — the General Education requirements, the Professional Studies, the completion of a major, and the completion of a certifiable minor or a non-certifiable concentration.

Majors in the Secondary Education Program

Art, Biology, Chemistry, Earth Science, English, French, General Science, German, Mathematics, Music, Physical Education, Physics, Social Science/History, Spanish, Technology Education and Vocational-Technical Education

Certifiable Minors for Secondary Students

Biology, Chemistry, Earth Science, French, General Science, German, Italian, Physics, Spanish.

Requirements for these areas of specialization may be found under the discipline.

Concentrations for Secondary Students

African-American Studies, Anthropology, Art, Business, Chinese, Computer Science, Economics, English, French, General Science, Geography, German, History, Italian, Mathematics, Music, Philosophy, Physical Education, Political Science, Psychology, Russian, Soviet and East European Studies, Sociology, Speech Communication, Speech Pathology, Spanish, TESOL, Theatre.

COURSE REQUIREMENTS

General Education

In partial fulfillment of the General Education requirements, the following studies are required of majors in Secondary Education programs: 6 credits in English and Speech (ENG 110 is required); HIST 261 or 262 and 3 elective credits (HIST 122 is recommended); PSY 235 or 236; 6 credits in Science; and 3 credits in Mathematics, either MATH 105, STAT 104 or CS 113.

Students in K-12 programs should consult the chairperson of their department to determine and recommend General Education courses in their degree program.

Professional Education

Specific requirements for acceptance to the Professional Program of the School of Education and Professional Studies are listed at the beginning of this section. In addition, enrollment in specific, upper-level courses is limited to students who have been accepted to the Professional Program. These courses include the following: EDSC 372, 373, 375, 413; EDF 400, 401.

The following credits of professional courses are required for certification:

Credits

SPED 470	Educating the Exceptional Learner	3
*EDSC 372	Principles of Secondary Education	2
*EDSC 373	Evaluation in the Secondary School	2
EDF 400	Philosophy of Education OR	
EDF 401	Foundations of Education	3
EDSC 413	Responsible Student Teaching	6-12
EDSC 256	Learning: Its Significance in Secondary Education	2

Special Methods course in conjunction with the major academic department (3 credits for English). 2

All students must also take professional education coursework in the academic discipline to be taught.

NOTE: EDSC 256, 372, 373 (or 375), EDF 400 or 401, SPED 470 and special professional education courses must be completed prior to student teaching.

Majors, Minors, Concentrations and Professional Education Courses

A grade of C or better is required for credit in the subjects taken in the major, minor and/or concentration fields, and in professional education courses.

*K-12 program (Art, Music, Physical Education and Technology Education) students take EDSC 375, Principles and Evaluation in Education instead of EDSC 372 and 373. EDSC 375 is only open to students who will student teach within two semesters after completing the course.

Student Teaching — see DIVISION OF CLINICAL PRACTICES

Division of Educational Foundations

L. D. Klein, *Coordinator*; D. Mulcahy. (Div. phone 827-7600)

The Division of Educational Foundations offers undergraduate courses in the areas of social and cultural foundations of education and philosophy of education. It also provides advanced coursework at the graduate level, as well as a Master of Science degree in Educational Foundations.

Division of Clinical Practices — Student Teaching

T. Andrews, *Director*. (Div. phone 827-7610)

All majors in Elementary and Secondary Education programs are required to complete student teaching. Prospective student teachers must complete a student teaching application form which is available in the office of the Division of Clinical Practices. To student teach in the fall semester, applications must be submitted by March 1 in the preceding spring semester. Applications to student teach in the spring semester must be submitted by October 1 of the preceding semester.

Students should have received a passing grade on the CONNCEPT examination (or waiver) and been accepted to the Professional Program of the School of Education and Professional Studies prior to applying for student teaching. The letter of acceptance from the Assistant Dean of the School of Education must be included with the application for student teaching.

Nursing

J. A. Hriceniak, *Chairperson*; L. Barile, L. Daniels, M. J. Williams. (Dept. phone 827-7267 or 827-7116)

The Nursing Department offers a baccalaureate program, the Bachelor of Science in Nursing (B.S.N.), designed to prepare a liberally educated person to function as a professional nurse in a variety of roles and health care settings. The program requires 130 credit hours.

Upon completion of this program, graduates are expected to be professionally competent generalists in nursing; recognize the need for continued personal and

professional development throughout life and possess the educational background for post-baccalaureate study in nursing.

Major in Nursing, B.S.N.

Admission Requirements

In addition to meeting all requirements established for admission to Central Connecticut State*, the applicant must:

- A. Be licensed currently as a registered nurse in Connecticut;**
 - B. Carry and provide documentation of adequate malpractice and health insurance;
 - C. Have completed a minimum of 45 undergraduate credits from an accredited college or university;
 - D. Have advisement by Department of Nursing faculty;
 - E. Be CPR certified;
 - F. Meet specific immunization and OSHA requirements.
 - G. Successfully complete a nursing validation examination, if graduated prior to 1986 or from out of state (30 credits of nursing transferred from associate degree or diploma school program if the examination is passed).
1. Start clinical courses within one year of passing the validation examination.
 2. Complete the B.S.N. program within five years of taking NRSE 302.

Requirements

Courses and credits as follows:

61 credits including validation examination (lower division nursing credits) of 31 credits; and NRSE 300, 301, 302, 303, 304, 306, 401, 402, 404, 406. In addition, BIO 412, 413; PS 448; PSY 428; and MGT 301 are required. Degree program totals 130 credits.

Concentration in Hospice Nursing, B.S.N.

12 credits in NRSE 498, STAT 215, and 6 credits from PHIL 344 or 345; PSY 480 and SOC 440.

*Admission to the University does not guarantee advancement to upper division nursing courses.

**Applicants in their final year of a diploma or associate degree may be accepted on a provisional basis.

Athletics

B. A. Reilly, *Chairperson*; M. Adams, R. Burns, S. Cin-torino, S. Green, G. Kawecki, J. J. Keleher, C. F. Krein, C. Lee, K. Pirog, N. Skinner, S. Villanti, T. Woodward. (*Dept. phone 827-7365*)

Physical Education and Health Fitness Studies

R. E. Trichka, *Chairperson*; A. B. Capitaio, C. M. Conatser, A. P. Craven, C. Fellows, F. J. Frangione, V. Morley, J. R. Olcott, S. H. Smith, J. R. Webster, J. W. Wojtusik. (*Dept. phone 827-7209*)

The Department of Physical Education and Health Fitness Studies offers a major in Physical Education for teacher certification with the options: PE in the Schools, Athletic Coaching, Athletic Training, and Exercise Specialist and non-certifiable majors in Health Fitness, Athletic Training and Physical Education for Older Adults.

Major in Physical Education, B.S. Ed.

65 credits (depending upon option elected) in Physical Education, subdivided into the following components:

Activity Courses

14 credits—7 credits required and 7 credits elective from among the following categories:

Rhythmics—Select two from PE 372*, REC 150, 152, 153, 157, 275.

Aquatics—Select one from PE 174, REC 200, 230, 232, 233.

Body Development—Select three from PE 155, 156, 170*, 171, 175*.

Racket Sports—Select two from REC 160, PE 370, 371.

Outdoor Recreation—Select one from REC 121, 124.

Team Sports—Select two from REC 142, PE 172, 173, 271, 374*.

Individual Sports—Select two from REC 159, 163, 164, 169, PE 273*, 274*.

*Required

Core of Required Lecture Courses

27 credits required of all majors:
PE 111, 210, 213, 214, 216, 303, 304, 305, 402, 405, 406.

Options in Physical Education

Each student will select one of the following options:

Physical Education for the Schools—PE 220, 301, 404, 420, EDSC 417, EDSC 419.

Athletic Coaching—PE 217, 332, 341, 404, select 4 credits from coaching courses, ED 419.

Athletic Training—PE 217, 315, 316, 404, 218, 317, EDSC 419.

Exercise Specialist—PE 217, 404, 218 or 317, 422, PE 400 and 443, EDSC 419.

The General Education prerequisites are:

BIO 111, CHEM 111, ENG 110, HIST 261, HIST 262, STAT 104, PHYS 111, PSY 235 and COMM 115.

Professional Education Courses Required: EDSC 256*, EDSC 375, EDF 400 or 401, EDSC 417 and/or 419.

*May be taken prior to admission to Professional Program.

PROGRAMS NOT CERTIFIABLE FOR TEACHING**Core of Required Courses (25 credits)****Credits**

PE 110	Concepts in Physical Fitness	2
PE 111	Orientation to Physical Education	1
PE 180	Cardiopulmonary Resuscitation	1
PE 210	Personal and Community Health	2
PE 213	Anatomy in Physical Education	3
PE 214	Physiology	3
PE 216	Kinesiology	3
PE 303	First Aid	1
PE 305	Evaluation in Physical Education	3
PE 402	Organization & Administration of Physical Education	3
PE 422	Motor Learning	3

Skill/Activity Courses

(7 credits)

Credits

PE 170	Physical Fitness	1
PE 171	Weight Training	1
PE 174	Swimming	1
PE 370	Tennis OR	
PE 371	Badminton	1
DAN 155	Dancercise	1
DAN 156	Slimnastics	1
REC 160	Racquetball	1

Free Electives 6

Health Fitness Specialization

Required Courses (27 credits)

Credits

PE 217	Care and Treatment of Athletic Injuries	3
PE 218	Scientific Basis for Athletic Training	3
PE 317	Therapeutics for Athletic Training	3
PE 404	Exercise Physiology	3
PE 400	Graded Cardiac Testing	3
PE 401	Implementation & Evaluation of Health Fitness	3
PE 443	Practicum in Exercise Counseling	3
PE 444	Internship in Exercise Science	6

Athletic Training Specialization

Required Courses (27 credits)

Credits

PE 217	Care & Treatment of Athletic Injuries	3
PE 218	Scientific Basis for Athletic Training	3
PE 315	Practicum in Athletic Training I	3
PE 316	Practicum in Athletic Training II	3
PE 317	Therapeutics in Athletic Training	3
PE 404	Exercise Physiology	3
PE 440	Therapeutic Modalities in Athletic Training	3
PE 445	Internship in Athletic Training	6

Free Electives 6

Physical Education for Older Adults Specialization

Required Courses (21 credits)

PE 215	Psychological Aspects of the Human Performance of the Aging	3
PE 217	Care and Treatment of Athletic Injuries	3
PE 306	Recreation and the Aging Process	3
PE 400	Graded Cardiac Testing	3
PE 403	Methods of Physical Education for the Aging	3
PE 404	Exercise Physiology	3
PE 443	Practicum in Health Fitness	3

Concentration in Physical Education

Required Courses

Credits

PE 101	Coaching Permit: Legal and Safety Aspects of Coaching	1
PE 102	Coaching Permit: Medical Aspects of Coaching	1
PE 103	Coaching Permit: Principles and Practices of Coaching	1
PE 110	Concepts in Physical Fitness	2
PE 180	Cardiopulmonary Resuscitation	1
PE 303	First Aid	1
PE 332	Psychological Aspects of Coaching	3
PE 407	Human Perspectives in Sport	3

Electives

Select 3-6 credit hours from the following:
3-6

Coaching courses—PE 333, 334, 335, 353, 355, 356, 357, 358, 359, 360, 361, 362, 363.

Select 2 credit hours from the following: 2
Officiating courses— PE 312, 314.

Total 18-21 credits

SCHOOL OF TECHNOLOGY

John R. Wright, *Dean*

Andrew W. Baron, *Assistant Dean*

The School of Technology prepares graduates in professional technological fields. It consists of three departments — Industrial Technology, Engineering Technology and Technology Education. The School offers Industrial Technology and Engineering Technology degrees leading to technical careers in industrial management and engineering technology. In conjunction with the School of Education, the bachelor of science degree (in education) prepares individuals for teaching careers in technology education.

The School provides students with an opportunity to develop competencies in tool, material and instrument usage; concepts of how industry changes the forms of material, energy and information to increase their value in society; concepts of how industry develops products, distributes and services products; and concepts of industrial organization and management.

Industrial Technology

W.W. Davison, *Chairperson*; A. W. Baron, S. R. Bennett, J. A. DeLaura — C. Mfg. E., M. Haase, O. Odesina, R. J. Perreault, P. J. Resetarits, S. E. Rich, R. H. Thompson, K. Tracey, P. J. Vernesoni, M. C. Vincenti, D. Zanella.

(Dept. phone 827-7414; Faculty phone 827-7654)

The Industrial Technology Department offers the following programs of instruction:

- Bachelor of Science degree in Industrial Technology.
- Master of Science degree in Organization and Management—Industrial Technical Management option.

The Industrial Technology Department has nine technical specializations designed to prepare students for technically oriented supervisory and middle management positions in industrial firms. The program responds to an increasing demand by industry for supervisory and management personnel who have a combination of technical, managerial and general education backgrounds. Therefore, Industrial Technology training includes a basic knowledge of industrial processes, including the operation of machines and equipment, in addition to a background in general studies. The training provides the graduate with experiences which make him or her flexible and adaptable to many kinds of industrial organizations with a reasonable amount of in-service or job-oriented training.

PLANS OF STUDY

Students interested in the Technology programs may attend Central Connecticut State full- or part-time. Part-time study permits a student to keep a full-time day job and enroll in courses in the late afternoon or evening. Full-time students may complete the 122-credit program in four years.

Industrial Technology Major, B.S.

(64 Credits)

Industrial Technology majors, regardless of the specialization selected, are required to complete a common base of 12 credits in technical courses and choose 12 credits in either Management or Industrial Sales as part of their program. Courses included within these common requirements are as follows:*

Technology Courses		Credits
IT 362	Leadership Skills for Supervisors	3
IT 410	Industrial Safety	3
IT 401	Industrial Internship	6

NOTE: Cooperative Apprenticeship Program under Special Programs.

Management		Credits
MGT 301	Principles of Management	3
LAW 250	Principles of Law	3
ENG 403	Technical Writing	3
AC 210	Industrial Accounting	3

Industrial Sales		Credits
MKT 303	Marketing Principles	3
ENG 403	Technical Writing	3
AC 210	Industrial Accounting	3
MKT 307	Sales Force Administration	3

TC — Technical Courses — designed to develop technical competencies; for Industrial Technology, Engineering Technology, and Technology Education majors.

*Different for Construction Management, Manufacturing, Power Transmission, Graphic Design/Management, and Public Safety Specializations.

General Education Requirements

A total of 62 credits in General Education studies must be completed as part of all baccalaureate degree programs.

Industrial Technology majors are required to complete the following 3-credit courses as part of their General Education: Mode 2 — STAT 104, MATH 115; Mode 6 — PSY 435; Mode 7 — ECON 201; Mode 8 — CHEM 111 with lab, PHYS 111 with lab; Area A — ENG 110, COMM 115 or 140.

Industrial Technology Specializations

Each Industrial Technology student should identify a specialization based on individual interests and goals. Nine specializations are available; each is shown with its course requirements.

Automation

Advisers: W.W. Davison (827-7414), R.H. Thompson (827-7393)

This specialization is designed to prepare students in the field of automation. Graduates will have a background in electronics, hydraulics and pneumatics, servo- and non-servo robotics, automation mechanisms, automated warehousing, data acquisition and feed back mechanisms, and the use of various control devices including personal computers (PC's), programmable logic controllers (PLC's), and sequence controllers. These technical components, in conjunction with middle management skills, will enable the graduate to enter industry in the areas of production automation, technical sales, project management and supervision of automated systems.

Specialization Requirements		Credits
TC 113	Intro to Information Processing	2
TC 114	Intro to Energy Processing	2
TC 118	Intro to Material Processing	2
TC 121	Technical Drafting	3
MATH 121	Pre-Calculus Mathematics	3

CS 213	Applications of Computer Programming	3
TC 324	Fluid Power Systems	3
TC 333	Data Acquisition and Control	3
TC 334	Mechanisms for Automation	3
TC 463	Programmable Logic Controllers	3
IT 400	Senior Project	3
IT 480	Robotics	
Electives — Technical and Management, select from the following:		Total 7
ET 260	CAD/CAM/CIM	3
IT 481	Mobile Robotics	3
TC 321	Computer-Aided Drafting	3
TC 433	Digital Circuits	3
TC 453	Microprocessors	3

Industrial Technology majors with a specialization in Automation are required to complete the following courses as part of their 62-credits General Education program: Area C — TC 213, 216.

Construction Management

Advisers: S. R. Bennett, R. J. Perreault. (827-7412)

This sequence of courses is designed to supply the student with a background of knowledge and experiences which will enable him/her to operate effectively in a supervisory position in the construction industries. The emphasis is not on specialized skills, but rather on a broad spectrum of subjects pertinent to this particular field.

Specialization Requirements		Credits
In place of IT 410, students will take IT 422.		
TC 113	Intro to Information Processing	2
IT 150	Construction Practices and Principles	3
IT 155	Environmental Control Systems	3
TC 255	Materials of Construction	3
IT 252	Construction Contract Documents	3
IT 254	Construction Graphics	3
TC 313	Electrical Power Systems	3
TC 351	Construction Estimating	3
IT 351	Building Systems I	3
IT 352	Building Systems II	3
TC 353	Construction Surveying	3
TC 355	Construction Planning	3
TC 455	Construction Project Management	3
IT 457	Construction Supervision	3
Electives—Technical and Management		5

Electrical Systems

Advisers: R. H. Thompson, D. Zanella. (827-7393)

This area of specialization is keyed toward preparing students for middle management positions in the electri-

cal and electronic industries. Graduates may work in such fields as utilization and distribution of electrical power, communications, computers and machine control systems.

Specialization Requirements		Credits
TC 113	Intro to Information Processing	2
TC 114	Intro to Energy Processing	2
TC 118	Intro to Material Processing	2
TC 121	Technical Drafting	3
TC 223	Electrical Circuits: DC	3
TC 233	Electrical Circuits: AC	3
TC 303	Electro-Mechanical Converters	3
TC 313	Electrical Power Systems	3
TC 323	Analog Circuits	3
TC 433	Digital Circuits	3
TC 443	Electronic Communications	3
TC 453	Microprocessors	3
Electives—Technical and Management		7

Graphic Arts

Advisers: S. E. Rich (827-7242), M. Haase, O. Odesina (827-7654)

This specialization is designed to provide the student with knowledge of the various techniques used in the printing industry: composition, photo mechanicals, press work and bindery. The training will be broad in scope with an emphasis upon wide background rather than mechanical skills, and will equip students to work on the management side of the labor management team as supervisors, estimators, salespersons or production controllers.

Specialization Requirements		Credits
TC 112	Instrument Drawing	3
TC 113	Intro to Information Processing	2
TC 114	Intro to Energy Processing	2
TC 118	Intro to Material Processing	2
TC 261	Intro to Graphic Design and Color	3
TC 212	Graphic Arts Industries	3
TC 342	Porous Printing and Post-Press Operations	3
TC 442	Lithography	3
TC 462	Advanced Graphic Arts Techniques	3
IT 355	Estimating for Printing	3
IT 360	Production Control	3
Electives—Technical and Management		10

Graphic Design Management

Advisers: S. E. Rich (827-7242), M. Haase, O. Odesina. (827-7654)

This track of the Graphic Arts specialization allows students to combine courses in Graphic Arts, Art and

Management to prepare for design management careers in the graphic arts field. Transfer credits from Graphic Design programs at community colleges are accepted.

Specialization Requirements		Credits
In place of IT 410, students will take MKT 306		
TC 112	Instrument Drawing	3
TC 212	Graphic Arts Industry	3
TC 261	Intro to Graphic Design and Color	3
TC 442	Lithography	3
TC 462	Advanced Graphic Arts Techniques	3
TC 472	Introductory and Publications Photography	3
IT 400	Senior Project	3
ART 222	Graphic Design Skills I	3
ART 421	Design Advertising	3
Electives—Technical, Art or Management		13

Manufacturing

Advisers: J. A. DeLaura—C. Mfg. E. (827-7654), K. Tracey, M. C. Vincenti (827-7262).

This specialization is designed to train students primarily for middle management and supervisory positions that are production-oriented. Industrial areas involved include production control, methods and work standards, production supervision, cost estimating and quality control. (Related job titles include industrial engineer, production foreman, quality control supervisor.)

Specialization Requirements		Credits
TC 113	Intro to Information Processing	2
TC 114	Intro to Energy Processing	2
TC 118	Intro to Material Processing	2
TC 121	Technical Drafting	3
TC 216	Materials Processing II (Metallics)	3
TC 316	Metals Machining	3
TC 416	Principles of Numerical Control	3
TC 446	Tool & Die Fundamentals	3
IT 359	Plant Layout	3
IT 360	Production Control	3
IT 458	Productivity Improvement	3
ET 456	Materials Analysis	3
Electives—Technical and Management		7

Occupational Safety

Adviser: A. W. Baron (827-7997).

The Occupational Safety and Health Act of 1970, by requiring employers to provide safe and healthful working conditions, has increased the need for trained safety personnel. This specialization in Occupational Safety will prepare students for management positions as safety professionals in private industry, federal, state and local government.

Specialization Requirements			Credits
TC	113	Intro to Information Processing	2
TC	114	Intro to Energy Processing	2
TC	118	Intro to Material Processing	2
TC	121	Technical Drafting	3
ET	300	Human Factors Engineering (Ergonomics)	3
IT	411	Industrial Hygiene	3
IT	412	Principles of Occupational Safety	3
IT	359	Plant Layout	3
IT	360	Production Control	3
IT	414	Industrial Loss Control and Prevention	3
IT	415	Fire Protection and Prevention	3
Electives—Technical and Management			10

Power Transmission

Adviser: W. W. Davison (827-7414)

This specialization provides the student with knowledge of the various techniques used in the power transmission industry. Training will be provided in the electro-mechanic areas, and provide students with the background to become supervisors, managers and sales-people in the field of power transmission. This program provides transferability from the community colleges and state technical colleges for students enrolled in automotive-related technology programs.

Students who select the Industrial Sales track should replace MKT 307 with MKT 304. Credits are selected from the following or automotive courses transferred from community and/or technical colleges.

Specialization Requirements			Credits
TC	113	Intro to Information Processing	2
TC	114	Intro to Energy Processing	2
TC	118	Intro to Material Processing	2
TC	121	Technical Drafting	3
TC	213	Electrical Energy	3
TC	214	Mechanical Energy	3
TC	313	Electrical Power Systems	3
TC	323	Electronic Circuits	3
TC	324	Fluid Power Systems	3
TC	334	Mechanisms for Automation	3
IT	360	Production Control	3
Electives—Technical and Management			10

Public Safety

Adviser: A. W. Baron (827-7997).

This specialization, primarily an in-service program, prepares students for supervisory and middle management positions in the public safety field.

The program provides transferability from the community colleges and state technical colleges for students enrolled in Public Safety, Police or Fire Science, EMS, Health or other safety-related technology programs. Students may earn the Bachelor of Science degree. Technical as well as management and supervisory courses are offered. Common base is included in specialization requirements below.

Specialization Requirements			Credits
IT	362	Leadership Skills for Supervisors	3
IT	401	Industrial Internship	6
IT	403	Techniques and Theories of Technical Training	3
IT	410	Industrial Safety	3
IT	433	Techniques of Conference Leading	3
MGT	301	Principles of Management	3
LAW	301	Principles of Law	3
AC	210	Industrial Accounting OR	
AC	201	Principles of Accounting	3
VTE	440	Human Relations	3
Political Science Elective			3

Specialization Courses (18 credits required):

Credits are selected from the following or transferred from community and/or technical colleges.

			Credits
TC	214	Mechanical Energy	3
TC	441	Architectural Drafting	3
TC	472	Introduction and Publication Photography	3
IT	380	Emergency Medical Technician	3
IT	412	Principles of Occupational Safety	3
IT	414	Industrial Loss Control Management	3
IT	415	Fire Protection and Prevention	3
Directed electives—13 credits based on advisement			13

Engineering Technology

D. C. Dowty, *Chairperson*; G. Alungbe, J. Bean — P.E., F. Cole, M. Faezi, R. S. Lang, L. Lema — C. Mfg. E., E. J. Maydock, O. A. Powell — P.E., E. Sarisley — P.E. (*Dept. phone 827-7370; Faculty phone 827-7412, 827-7413; FAX 827-7982*)

The Engineering Technology Department offers the Bachelor of Science degree in Engineering Technology.

The Department has three technical specializations designed to prepare students to become active partners with engineers and be team members of the total technological enterprise that extends from planning to production, construction, and/or service.

Students who have chosen a specific track in Engineering Technology will be able to apply scientific, mathematical and basic engineering knowledge and methods, combined with technical skills, in support of engineering activities. The four-year planned course of study includes science, math, computer graphics, communications and mechanics, along with laboratory courses in the technical specialization.

Plans of Study

Those students enrolled in the Engineering Technology Department may attend the University full- or part-time. Courses offered in the late afternoon or evening allow part-time students to maintain full-time employment. Full-time students may complete their 130-credit program in four years. A Co-op experience is suggested for all students.

Engineering Technology Major, B.S.

General Education Requirements

Engineering Technology majors are required to complete the following courses as part of their General Education program: Mode 2 — STAT 104, MATH 115, 125, CS 213; Mode 8 — CHEM 121, PHYS 121, 122; AREA A — ENG 110, 403, COMM 140; and Area C — ET 150, 497. A minimum grade of C- is required in these General Education courses. Refer to program curriculum sheets for specific mode requirements.

Engineering Technology Specializations

Each Engineering Technology student should identify one of the following specializations based on individual interests and goals. Three specializations are identified; each is shown with its course requirements.

Manufacturing Engineering Technology

Accredited by TAC/ABET

Advisers: L. Lema—C. Mfg. E. (827-7370), M. Faezi (827-7412).

This specialization develops concepts employed by manufacturing industries to increase productivity, reduce cost and efficiently use tools and machinery. Emphasis is on the area of manufacturing, process planning, CAD/CAM, production techniques, and the application of mathematics and computers.

Specialization Requirements		Credits
*MATH 101	Algebra	3
TC 113	Intro to Information Processing	2
TC 121	Technical Drawing	3
TC 213	Electrical Energy	3
TC 216	Materials Processing II	3
TC 316	Metals Machining	3

TC 324	Fluid Power Systems	3
TC 416	Principles of Numerical Control	3
TC 446	Tool and Die Fundamentals	3
IT 360	Production Control	3
IT 364	Statistical Process Control	3
IT 480	Robotics	3
ET 260	CAD/CAM/CIM	3
ET 351	Applied Mechanics I (Statics)	3
ET 352	Applied Mechanics II (DYN/HYD)	3
ET 360	Computer-Aided Planning	3
ET 440	Geometrical Dimensioning/ Tolerancing	3
ET 456	Materials Analysis	3
ET 461	Manufacturing Plastics/Composites	3
ET 462	Manufacturing Process Planning and Estimating	3
ET 466	Design for Manufacturing	3
ET 498	E.T. Senior Project (capstone)	3
	Directed Technical Elective	3
	Total	68

Industrial Systems Engineering Technology

Advisers: E. J. Maydock (827-7412), R. S. Lang (827-7413).

This specialization combines Industrial Engineering principles with computer applications to increase and improve the quality of a professional's performance. These graduates support both line and staff management personnel. Responsibilities would include scheduling, allocation of human and/or material resources involving sales force, office and plant personnel.

Specialization Requirements		Credits
*MATH 121	Pre-Calculus	3
CHEM 122	Chemistry II	4
TC 113	Intro to Information Processing	2
TC 121	Technical Drawing	3
TC 213	Electrical Energy	3
IT 359	Plant Layout	3
IT 360	Production Control	3
IT 364	Statistical Process Control	3
IT 410	Industrial Safety	3
IT 432	Worker/Supervisor Relations	3
IT 458	Productivity Improvement	3
IT 480	Robotics	3
ET 260	CAD/CAM/CIM	3
ET 300	Human Factors Engineering	3
ET 351	Applied Mechanics I (Statics)	3
ET 352	Applied Mechanics II (DYN/HYD)	3
ET 360	Computer-Aided Planning	3
ET 456	Materials Analysis	3
ET 498	E.T. Senior Project (capstone)	3

*Placement exam required

CS	450	Operations Research in Computer Science	3
CS	473	Simulations Techniques	3
		Directed Technical Electives	5
		Total	68

Civil and Construction Engineering Technology

Accredited by TAC/ABET

Advisers: E. Sarisley — P.E. (827-7412), G. Alungbe,
J. Bean — P.E., O. A. Powell — P.E. (827-7413)

This specialization provides students with a background of knowledge in design support, construction and maintenance of the infrastructure. Graduates may work in consulting firms, construction organizations, testing laboratories, municipal governments and utility companies. Emphasis is on the areas of surveying, materials, structures and use of the computer in the construction industry.

Specialization Requirements			Credits
*MATH	101	Algebra	3
TC	113	Intro to Information Processing	2
TC	122	CAD for Construction	3
TC	255	Materials of Construction	3
TC	313	Electrical Systems	3
TC	351	Estimating for Construction	3
TC	353	Construction Surveying	3
TC	355	Construction Planning	3
IT	150	Construction Practices and Principles	3
IT	252	Construction Contract Documents	3
IT	254	Construction Graphics	3
ET	351	Applied Mechanics I (Statics)	3
ET	352	Applied Mechanics II (DYN/HYD)	3
ET	357	Strength of Materials	3
ET	397	Structural Analysis	3
ET	451	Soil Mechanics/Foundations	3
ET	454	Transportation/Land	3
ET	457	Advanced Surveying	3
ET	470	Structural Steel Design	3
ET	471	Reinforced Concrete Structures	3
ET	498	E.T. Senior Project (capstone)	3
		Directed Technical Elective	6
		Total	68

*Placement exam required

Technology Education

W. T. Foster, *Chairperson* (827-7379); ; G. Ku,
J. C. Larkin, P. A. Rodrigues, W. Tracey, M. J. Williams.
(*Faculty phone* 827-7393, 827-7654)

The Department of Technology Education offers the following programs of instruction:

Bachelor of Science degree in Technology Education;
Master of Science programs in Technology Education;
Planned sixth year—no certificate or degree;

Specific requirements for the planned fifth year, master of science degree program and sixth-year programs in Technology Education are stated in the graduate catalog.

TECHNOLOGY EDUCATION

The undergraduate program in Technology Education prepares students for teaching Technology Education in the elementary grades, junior and senior high schools, and in adult education. The degree is also suitable for students interested in becoming industrial trainers and for vocational teachers who are interested in teaching Technology comprehensively versus a specific occupational skill. The four-year curriculum provides specific training in Technology education as well as in the humanities, the social and behavioral sciences, mathematics, natural sciences, fine arts, and physical education.

College/university graduates desiring to meet certification requirements for teaching Technology Education in Connecticut should contact Peter Rodrigues (827-7654).

Technology Education Major, B.S.

Advisers: W. T. Foster, G. Ku, P. A. Rodrigues,
W. Tracey. (*Faculty phone* 827-7393 or 827-7654)

General Education Requirements

A total of 62 credits in General Education studies must be completed as part of all baccalaureate degree programs. See General Education section in this catalog.

Technology Education students are required to take ENG 110, HIST 261, PSY 235 or 236, PHYS 111 and CHEM 111, and MATH 115. These courses count toward the overall General Education requirements.

Technology Education Professional Requirements

Students are required to take TE 199, 399, 400 and 428. Please pay careful attention to the semester in which these courses will be offered indicated in the Course Description section of this catalog. All of these courses may not be available each semester and are seldom available during the summer sessions.

Technology Education Technical Requirements

Technology Education majors are required to take TC 113, 114, 118, 121, 212, 213, 214, 215 and TE 110, 410, 420, 430, 450 as well as three additional credits of technical courses indicated by the TC prefix and approved by their Technology Education adviser. Each major in Technology Education must complete at least 6 semester hours in each of the following areas: communication, production and transportation.

Professional Education Requirements

Technology Education majors are required to take SPED 470, EDSC 375, EDF 400 or 401, EDSC 256 or PSY 256, EDSC 414 and 415. NOTE: EDSC 256 or PSY 256 may not be used for Mode requirements.

Admission to the Professional Program

Students must make formal application for admission to the Professional Program of Technology Education after completion of 45 credits in coursework. At least 15 of these credits must be in TC, TE or IE courses. Applications are available from the Dean of Education and Professional Studies, Barnard Hall, and must be filed prior to October 1 or March 1. Acceptance is prerequisite to taking TE 400, EDSC 414 and 415. Students must maintain a minimum 2.50 grade point average in all technology courses. See School of Education and Professional Studies, Admission to Professional Program and Special Departmental Criteria for Technology Education.

VOCATIONAL-TECHNICAL EDUCATION

The certification curriculum in Vocational-Technical Education is designed to prepare teachers of occupational subjects (skilled trades) and trade-related subjects for Connecticut's vocational-technical schools, teachers of trade and industrial occupational subjects for local education agencies, and health occupation educators. Students planning to qualify for vocational teaching positions within Connecticut's public schools are normally required to meet the following work experience requirements for certification:

Trade and Industrial Occupational Subjects Teachers (Comprehensive High Schools)—3 years of appropriate work experience.

Recommended courses for vocational certification for **Trade and Industrial Occupational Subjects in Comprehensive High Schools** (formerly "Occupational Subjects"):

	VOC. & IND. ED. CREDITS	PROF. ED. CREDITS
Initial Educator Certificate		
VTE 113		
Analysis and Teaching of VTE I	3	
VTE 415		
Principles of Vocational Education	3	
Provisional Educator Certificate		
SPED 470		
Educating the Exceptional Learner		3
Professional Educator Certificate		
VTE 116		
Analysis and Teaching of VTE II	3	
VTE 325		
Curriculum Development for Vocational Education	3	
VTE 328		
Shop Organization and Management	3	
VTE 400		
Evaluating Student Achievement in VTE	3	
PSY 235		
Child and Adolescent Development		3
ETM 370		
Audiovisual Education		3
RDG 440		
Teaching Reading in Secondary School		3
Total Credits	18	12

Trade-Related Subjects Teachers (CT Vocational-Technical Schools)—3 years of appropriate work experience.

Recommended courses for vocational certification for **Trade-Related Subjects in Vocational-Technical Schools**:

	VOC. & IND. ED. CREDITS	PROF. ED. CREDITS
Initial Educator Certificate		
VTE 113		
Analysis and Teaching of VTE I	3	
VTE 116		
Analysis and Teaching of VTE II	3	
Provisional Educator Certificate		
SPED 470		
Educating the Exceptional Learner		3

	VOC. & IND. ED. CREDITS	PROF. ED. CREDITS
Professional Educator Certificate		
VTE 325		
Curriculum Development for Vocational Education	3	
VTE 328		
Shop Organization and Management	3	
VTE 400		
Evaluating Student Achievement in VTE	3	
VTE 415		
Principles of Vocational Education	3	
PSY 235		
Child and Adolescent Development		3
ETM 370		
Audiovisual Education		3
RDG 440		
Teaching Reading in Secondary School		3
Total Credits	18	12

Principles of Vocational Education	3	
PSY 235		
Child and Adolescent Development		3
ETM 370		
Audiovisual Education		3
RDG 440		
Teaching Reading in Secondary School		3
Total Credits	18	12

Teacher Coordinator of Cooperative Education, Diversified Occupations*

Recommended courses for certification as a **Teacher-Coordinator of Cooperative Work Education, Diversified Occupations:**

Initial Educator Certificate	Credits
VTE 450 Principles and Organization of Cooperative Work Education	3

and, one of the following

VTE 415 Principles of Vocational Education	3
VTE 455 Labor Market Trends and Student Job Readiness	3

*Prereq.: Holds or is eligible for secondary-level certification. One year work experience, three years teaching experience required.

Occupational Subjects (CT Vocational Technical Schools)—8 years of appropriate work experience.

Recommended courses for vocational certification for **Occupational Subjects Vocational -Technical Schools** (formerly "Skilled Trades"):

	VOC. & IND. ED. CREDITS	PROF. ED. CREDITS
Initial Educator Certificate		
VTE 113		
Analysis and Teaching of VTE I	3	
VTE 116		
Analysis and Teaching of VTE II	3	
Provisional Educator Certificate		
SPED 470		
Educating the Exceptional Learner		3

Professional Educator Certificate		
VTE 325		
Curriculum Development for Vocational Education	3	
VTE 328		
Shop Organization and Management	3	
VTE 400		
Evaluating Student Achievement in VTE	3	
VTE 415		

COOPERATIVE EDUCATION PROGRAM

Cooperative Education is an academic program integrating classroom study with career-related work experiences. Co-op work experiences are paid, full-time, six-month positions related to academic and career interests. Co-op is an optional, and in most cases, noncredit program.

Central Connecticut State's program, the largest in Connecticut and one of the largest in New England, combines five months of on-campus study with six months of paid Co-op employment. Thus, students apply textbook learning to on-the-job training. The money earned, at similar salaries earned by regular full-time employees, helps students finance their University education.

Co-op students are assigned a Cooperative Education coordinator who will develop Co-op jobs which meet their needs, and guide their career development at Central Connecticut State. Students also receive instruction in skills that make the difference in today's job market: résumé writing, interviewing techniques, career planning and job-seeking strategies.

Students may go through the work/study cycle up to four times. As they advance in studies, Co-op jobs are more advanced, more responsible and higher paid.

In the Co-op program, students graduate with up to two years of career-related work experience and, possibly, with a job offer. A sizeable number of Central Connecticut State's Co-op students are offered permanent positions with their Co-op employers upon graduation. And nationwide, graduates of Co-op programs are hired at higher salaries and promoted faster than other employees. For students unsure of a career, Co-op is a no-risk way to test job options. For those set in their goals, Co-op provides a direct route from campus to career.

How Co-op Works

- Co-op work blocks run from January through June (Group A) and from July to December (Group B).
- Students may participate in either one, two, three or four Co-op work blocks.
- Students may enroll in the Co-op program as early as the summer following their freshman year.
- Students must enroll in a Co-op Career Development Seminar during the semester prior to the first work experience.

Enrolling in the Co-op Program

Once enrolled at Central Connecticut State, the first step in becoming a Co-op student is to attend a Co-op Information Session. These are offered weekly in the Co-op Office, Willard Hall Room 100. The session provides details about how the program works, how to enroll, and the benefits the student can expect as a Co-op student at Central Connecticut State. It gives students an opportunity to ask questions and receive current literature about the program.

After the Information Session, students meet with a coordinator to formally enroll in the program.

Students should plan to enroll in the program at least one semester prior to the first planned work block. Group A students must apply no later than the second week of the fall semester; Group B students must apply no later than the second week of the spring semester. Applying a semester in advance of the work block ensures 1) a place in the program; 2) sufficient time for the Co-op staff to develop appropriate Co-op positions; and 3) sufficient time for students to complete the Career Development Seminar prior to their work experience.

The Career Development Seminar

The Career Development Seminar is designed to teach students life-long career skills. They learn to write a résumé, interview effectively, make career decisions, explore occupations and discover where the jobs are in their field. This one-credit course is taught by the Co-op staff.

Cost and Eligibility

The Co-op program is available to all full- and part-time students in good academic standing. Currently, it costs \$400 per year to be enrolled in the Co-op program. Students are billed \$200 per semester.

INTERNATIONAL AND AREA STUDIES

International and Area Studies programs are offered as interdepartmental and inter-school programs at the undergraduate and graduate levels.

CCSU now offers an interdisciplinary degree program in International Studies with specializations leading to the bachelor of arts degree for students in Arts and Sciences and a bachelor of science for students in Secondary Education. Graduates of the B.S. program are qualified to teach history and social studies.

Concentrations in African Studies, East Asian Studies, Latin American Studies, Slavic and East European Studies and European Community/West European Studies are also offered.

Each student planning to major in International Studies should contact the chairperson of the International and Area Studies Committee. Students planning a concentration in an area, or those interested in an area as part of the B.A./B.S. major program, should contact the coordinator of the appropriate area studies program.

A multidisciplinary program leading to the Master of Science in International Studies is also offered through the International and Area Studies Committee.

For further information contact Dr. Timothy J. Rickard, chairperson, International and Area Studies Committee, 827-7465.

International Studies

International Studies Major, B.A.

Core Curriculum, 12 credits

IS 225 The World as a Total System

IS 475 Senior Project

and two of the following:

GEOG 120 World Regional Geography

HIST 122 World Civilization II

PS 104 The World's Political Systems

Regional Specialization, 9 credits

Courses from history, language and literature, social or behavioral science of particular world regions as approved by a faculty adviser. Students will be encouraged to select a region coinciding with existing CCSU Area Studies programs, though a specialization from other world regions can be selected if desired and courses are available.

Modern Language, 18 credits

Language competency with regional specialization. 18

credits or verification of intermediate-mid competency level in each of reading, writing, speaking and understanding are required. If intermediate-mid competency is established with fewer than 18 hours, free electives may be substituted.

Academic Track, 27 credits

An additional nine courses selected in consultation with an adviser, either within a particular academic field or from a range of academic fields organized around a particular problem, theme or area.

Structured International or Multicultural Experience

At least one semester of faculty-supervised, in-depth exposure to another way of life. Ideally, I.S. students will spend one academic year abroad. If unable to do so, I.S. faculty will assist students to develop a local multicultural experience related to the student's academic track or regional specialization.

International Studies Major, B.S

Core Curriculum, 9 credits

IS 225 The World as a Total System

GEOG 120 World Regional Geography

PS 104 The World's Political Systems

Regional Specialization, 9 credits

Courses from history, language and literature, or social science of particular world regions. Students will be encouraged to select a region coinciding with existing CCSU Area Studies programs, though a specialization from other world regions can be selected if desired and courses are available. Six hours of regional courses may be counted against either the social science or history requirements.

History (minimum of 18 credits, including U.S. and European or World History)

Required courses include:

HIST 121 World Civilization I

HIST 122 World Civilization II

HIST 261

or 262 History of American Life (pre- or post-1865)

plus 9 credits additional history electives

Social Science (minimum of 15 credits in three disciplines)

6 credits fulfilled by International Core Courses plus 9 credits additional of which 3 credits are fulfilled by IS 475, Senior Project.

Modern Language: 18 credits in addition to basic course of 6 credits or equivalent (e.g. three years high school language).

Structured International or Multicultural Experience

At least one semester of faculty-supervised, in-depth exposure to another way of life. Ideally, I.S. students will spend one academic year abroad. If unable to do so, I.S. faculty will assist students to develop a local multicultural experience related to the student's academic track or regional specialization.

African Studies

G. Emeagwali, *Coordinator* (827-7450);
G. Alungbe, H. Brown, W. Brown, B. Carmichael,
G. El-Eid, S. Fafunwa-Ndibe, P. LeMaire, A. Moemeka.

Concentration in African Studies, B.A. or B.S.

18 credits including GEOG 446, HIST 375, 376, PS 320, 434, and 3 credits of electives as approved by the program coordinator.

Major

Students wishing to construct a major program in African Studies may do so using the framework provided by the B.A./B.S. in International Studies.

East Asian Studies

J. McKeon, *Coordinator* (827-7632); S. Chon,
M. Guarino, Y. Ju, K. H. Kim, C. S. Lien, S. Tomoda,
R. Williams.

Concentration in East Asian Studies, B.A. or B.S.

18 credits of electives in East Asian courses, subject to approval of the coordinator. Courses used for a major may not be used to fulfill the requirements of the concentration.

Major

Students wishing to construct a major program in East Asian Studies may do so using the framework provided by the B.A./B.S. in International Studies.

European Community/ West European Studies

M. Wallach, *Coordinator* (827-7311); D. Mulcahy,
M. Passaro, P. Resetarits, T. Rickard, M. Rohinsky,
P. Sanders, D. Sanford, R. Todd, H. G. P. Wallach.

Concentration in European Community/ West European Studies, B.A. or B.S.

18 credit hours including ECON 430, GEOG 452,
HIST 444, PS 336, and including competency at the in-
termediate (126) level in a West European language. Stu-

dents achieving this competency with fewer than 6 credits should take courses in language or culture or other suitable regional courses in consultation with an adviser.

Major

Students wishing to construct a major program in European Community/West European Studies may do so using the framework provided by the B.A./B.S. in International Studies.

Latin American Studies

M. A. Arenas, *Coordinator* (827-7508);
W. Brown, R. Castells, A. Cortes, C. Eber, A. C. Richard,
A. Rigazio-Digilio, G. Salazar, J. N. Snaden, L. Uribe.

A brochure describing the programs in depth is available from the coordinator.

Concentration in Latin American Studies, B.A. or B.S.

18 credits including GEOG 434, 436; HIST 381, 382;
and 6 credits from the following: ANTH 428, 433*;
ECON 398*, 435, 499*; GEOG 459*, 469*; HIST 483,
484, 493*; HUM 490*; PS 235, 438, 490; SOC 411,
433*; SPAN 316, 375, 376, 410

In addition, students will use 6 credits from the following to satisfy their General Education requirements:
SPAN 125, 126, 225, 226.

Courses taken as a part of this concentration may not also be used to fulfill requirements of the student's major. Note prerequisites where applicable. Each concentrate is required to register with the program adviser.

Major

Students wishing to construct a major program in Latin American Studies may do so using the framework provided by the B.A./B.S. in International Studies.

*These courses may be taken when it can be demonstrated that such courses are appropriate to a Latin American Studies concentration and when the written approval of the program adviser has been obtained.

Middle Eastern Studies

G. El-Eid, *Coordinator* (827-7916); F. Abdollahzadeh,
A. Antar, G. Emeagwali, M. Faezi, N. Mezvinsky,
A. Papathanasis.

Concentration in Middle Eastern Studies

A concentration in Middle Eastern Studies is likely to be available to students after approval some time during the 1993-94 academic year.

Major

Students wishing to construct a major program in Middle Eastern Studies may do so using the framework provided by the B.A./B.S. in International Studies.

Slavic/East European Studies

D. A. Kideckel, *Coordinator* (827-7461); J. Bergman, S. Blejwas, P. Karpuk, L. Lawson, J. Lucas (Emeritus) N. Papp, E. Rybczyk, P. Sanders, A. G. Smith.

Concentration in Slavic/East European Studies, B.A. or B.S.

18 credits, including 9 selected from the following: ANTH 426, GEOG 448, HIST 348, 350, 356, PS 435. RUS 125 and 126 or study of another East European language at an equivalent level are strongly recommended. Courses in Polish Studies may be applied to a Slavic/East European concentration (see Polish Studies Center).

Major in Russian Studies

Students wishing to construct a major program in Russian Studies may do so using the framework provided by the B.A./B.S. in International Studies. For a sample program please contact P. Karpuk (827-7508).

Major in Slavic/East European Studies

Students wishing to construct a major program in Slavic and East European Studies may do so using the framework provided by the B.A./B.S. in International Studies.

SPECIAL PROGRAMS

Cross-Discipline Majors and Concentrations

African-American Studies

F. Best, *Program Adviser* (827-7123); *African-American Studies Committee*: G. A. Clarke, W. L. Brown, G. Emeagwali, H. S. Enck, J. Buxton, H. Salahu-Din, M. Mentzer.

The African-American Studies concentrations are designed to provide a comprehensive view of the expanding body of knowledge about black people in America and throughout the world, past and present.

Concentration in African-American Studies, B.S. Secondary or B.A.

21 credits, including HIST 369 or 469 and 18 credits of approved electives.

Several departments offer courses applicable to the African-American Studies concentration. Students should consult with the program adviser when planning a program. Students interested in achieving a background in African-American Studies, and unable to complete the concentration, may, with the approval of the program adviser, select courses which include either HIST 369 or 469. A brochure describing the program in depth is available.

Special Studies Major

With the help of an academic adviser, an undergraduate student may design a major to fit his or her own interests and needs. A Special Studies major must consist of 30-40 credits if a conventional concentration is taken, or 48-60 credits if no concentration is taken. At least half of the program must consist of 300- or 400-level courses. A proposal for a Special Studies major will only be considered when it is clearly shown that no present major offered by the University meets the same need. The major will consist of already existing courses, and all academic requirements of the University, as well as all course requirements, including prerequisites must be met. All Special Studies programs total 122 credits minimum.

To be eligible for such a Special Studies major leading to a B.S. or B.A. degree, the student must be in good standing. The application must be approved by a faculty adviser, chairpersons of departments from which there are three or more courses in the major, and the dean of the school of the adviser. Applications normally should be filed prior to the completion of 60 credit hours. The student must have completed at least 12 credits at CCSU or have transferred at least 30 credits prior to filing.

Approval of Special Studies majors is by a majority of a committee composed of the chairperson of the Curriculum Committee, the chairpersons of the Arts and Sciences, Business, Education and Professional Studies and Technology subcommittees, and the dean of the School of Arts and Sciences or his or her representative. Inquiries may be directed through the offices of the deans.

Following is an example of an area in which students have designed Special Studies programs leading to degrees in Special Studies: **American Studies**. Students interested equally in American history and literature may devise a special program with the help of the academic adviser.

Medical Technology

Students may specialize in Medical Technology in the Biology major in the B.A. program. This specialization within the major requires 52 credits in science, including BIO 121, 122, 316, 318 416 and 417; CHEM 121, 122, 301, 311, 312 and 454; PHYS 121 and 122. In addition, the student must take MATH 125 and complete, as a se-

nior, a year of clinical training in medical technology at an approved hospital. 30 credits will be awarded for the courses taken at the hospital.

The listing of clinical courses and their descriptions is in the Course Description section of this catalog under Medical Technology.

Those applicants who qualify for clinical placement should note that eligibility does not imply automatic acceptance.

Students interested in this program must consult Professor Richard P. Wurst, coordinator, Medical Technology Program, Department of Biological Sciences, Copernicus Hall 345.

The University currently has affiliation agreements with the following schools:

Bridgeport Hospital, Bridgeport, CT: Larry Bernstein, M.D., Medical Director, School of Medical Technology, and Patricia A. Clark, MT (ASCP), Program Director;

St. Mary's Hospital, Waterbury, CT: Dante Cannarozzi, M.D., Medical Director, School of Medical Technology, and Joseph Vaccarelli, M.S., MT (ASCP), Program Director.

B.A. Credit for Registered Nurses

Registered nurses holding a diploma verifying completion of a three-year program in an approved school of nursing may be granted up to 48 credits toward a B.A. degree at Central Connecticut State. Nurses entering this program may select any standard B.A. major. If the chosen major requires a concentration, it is automatically replaced by 25 credits in clinical experience which is part of the nursing degree. When 48 credits are granted, the remaining 23 credits satisfy requirements in Modes 6, 7, 8 and Area C as shown below.

General Education requirements for registered nurses entering the B.A. program are as follows:

Mode 1	3 credits
Mode 2	6 credits, including one MATH or STAT course.
Mode 3	6 credits
Mode 4	6 credits
Mode 5	6 credits
Mode 6	6 credits of transferred behavioral science credits fulfill this mode.
Mode 7	6 credits of transferred social scientific credits fulfill this mode.
Mode 8	6 credits of transferred chemistry and microbiology credits fulfill this mode.
Area A	6 credits, including required ENG 110.
Area B	3 credits
Area C	5 credits in transferred anatomy and physiology will be credits toward this area.
Area D	2 credits

A concentration is not required.

Applicants who are graduates of a three-year school of nursing may apply. Admission is on the basis of established requirements as set forth in this catalog under the Admission of Transfer Students section.

For information on the B.S.N. degree, see the catalog under School of Education and Professional Studies.

Women's Studies

J. B. Higgins, *Coordinator (827-7679)*; *Advisory Committee*: C. Eber, M. A. Ertel, E. Godway, M. Mentzer, J. P. Sprowl, L. Perdue, H. M. Prescott, C. Shmurak, M. Wallach, C. White.

Concentration in Women's Studies, B.A. or B.S.

18 credits, distributed as follows: WS 200; 15 credits of electives selected in consultation with the Women's Studies coordinator. A minimum of 6 credits must be taken in each of the following areas: Humanities (ART 409*†; ENG 288*, 448*, 488*; PHIL 100*, 222, 382*†). Social and Behavioral Sciences (ANTH 339, 350; HIST 330; PS 241, 448; PSY 428, 448; SOC 240). Other course options are pending approval. Consult the coordinator for current options and requirements.

9 credits of electives on the 300-400 level are required. Students whose needs are not met by available courses can take up to 3 credits of independent guided reading and/or research, pending approval of the appropriate departmental chair and the Women's Studies coordinator.

†Note prerequisites.

*Under section or topic approved by the Women's Studies coordinator.

UConn/CCSU Joint Program in Public Affairs

There is a cooperative program between Central Connecticut State University and the University of Connecticut for the Master of Public Administration degree. An undergraduate student may enroll in up to four approved graduate-level courses and later apply these courses toward the MPA. Approved Central Connecticut State courses (PS 445, 446, 447, 448, and 561) may be credited toward the MPA. Non-matriculated students, who have completed the B.A., may take up to three courses in the MPA program before applying for admission. Courses at both universities are cross-listed for registration purposes and students may register from their home institution. Detailed information may be obtained from the chairperson of the Political Science Department, or from the director of the UConn Master of Public Affairs program.

Pre-Professional Programs

Pre-Law

Students preparing for a career in law are invited to consult members of the Pre-Law Advisory Committee.

Information concerning law school admission and the Law School Aptitude Test is available from the following committee members: Antonia Moran, Department of Political Science, and Karen Hansen, associate dean, Student Affairs.

Pre-Medical

A Pre-Health Professional Advisory Committee is available to students interested in preparing for careers in medicine, dentistry, veterinary medicine, optometry and related fields in the health sciences for which pre-professional training is required prior to admission to other institutions. The Pre-Health Professional Advisory Committee includes faculty members from each department of the Division of Natural Sciences.

Students interested in pre-health professional programs should consult Professor Richard P. Wurst, program coordinator for the health professionals, Department of Biological Sciences, Copernicus Hall 345.

Cooperative Programs

Central-UConn Exchange Program

Under certain conditions, Central Connecticut State students may take courses at the University of Connecticut or its branches without paying additional fees. Only courses not offered at Central Connecticut State may be taken on this basis.

Admission to the courses will be on a space-available basis within pre-established class limits. To be eligible, Central Connecticut State students must have paid maximum tuition and fees for full-time study. University officials must approve the student's qualifications for taking the course in question.

Interested students may contact the Dean of Arts and Sciences in DiLoreto Hall 112 for further information.

Cooperative Apprenticeship Program

By agreement between Central Connecticut State and Pratt & Whitney Aircraft, college credit may be granted for successful completion of approved courses taken in-plant by Pratt & Whitney Aircraft apprentices when transferred to the Industrial Technology program. These credits will be applied toward the B.S. degree in Industrial Technology after the student has matriculated at Central Connecticut State.

Inquiries regarding this program may be directed to the Educational Assistance Office at Pratt & Whitney Aircraft or to the chairperson of the Industrial Technology Department at Central Connecticut State.

Corrections Concentration

Students who complete a planned program of 18 credits in police science, law enforcement or corrections at an accredited college may receive transfer credit at Central Connecticut State. This work will be regarded as fulfilling the requirement for concentration. Students receiving credit for such a concentration may undertake a B.A. major in Sociology, Political Science or Psychology or in other fields with the approval of the appropriate department chairpersons and the Dean of Arts and Sciences.

Regardless of major chosen, all students receiving credit for a Corrections concentration should notify the office of the Dean of Arts and Sciences immediately upon transfer to Central Connecticut State.

Engineering Transfer Program

This program provides the first year and sophomore core of courses needed for a wide variety of engineering fields. Constructed in consultation with the School of Engineering at the University of Connecticut, it is designed to enable a limited number of students to transfer to that school after the sophomore year to complete the Bachelor of Science degree in either Chemical, Civil, Electrical or Mechanical Engineering in approximately two additional years.

The program at Central Connecticut State includes laboratory courses in Chemistry and Physics, Mathematics, Computer Science, Drafting, freshman English, and various electives in Social Sciences and Humanities.

The Engineering Advisory Committee will assist students with transfer procedures to the School of Engineering at the University of Connecticut and to other schools of engineering.

Students planning to enroll must consult with the Committee Chairperson at the earliest opportunity. Inquiries should be addressed to Engineering Transfer Program, Department of Physics-Earth Sciences, Central Connecticut State University, New Britain, CT 06050 (827-7228).

Reserve Officers Training Corps (ROTC)

Army and Air Force ROTC program offered to Central Connecticut State students at the University of Connecticut Storrs campus.

Without paying extra tuition, Central Connecticut State students may pursue Army- or Air Force-Commissioning studies for four years (four-year program) or only during their junior and senior years (two-year program).

Students wishing to enroll in the two-year program must arrange with ROTC authorities during the second semester of their sophomore year.

Scholarships paying a tax-free monthly stipend of \$100, tuition, fees and book costs up to \$7000 per school year are available to students on a competitive basis.

Interested students are directed to the Army ROTC office at UConn, 486-4539.

AIR FORCE AEROSPACE STUDIES

Aerospace Studies I. Both semesters. One credit each semester. One class period and one one-hour leadership laboratory period.

Role of U.S. military forces as the military instrument of national power. The doctrine, organization, missions and functions of strategic offensive and defensive forces, general purpose forces and support forces. Emphasis is on the U.S. Air Force.

Aerospace Studies II. Both semesters. One credits each semester. One class period and one one-hour leadership laboratory period.

Development of air power from a historical perspective. Air power's impact on military strategy. Changing mission of the defense establishment.

Aerospace Studies III. Both semesters. Three credits each semester. Three class periods and one one-hour leadership laboratory period. Prerequisite: Air Force Aerospace Studies 114 and 124, or six weeks field training and consent of Professor of Aerospace Studies.

Modern management fundamentals, including individual motivational and behavioral processes, group dynamics, organizational power and managerial strategy. Development of communicative skills.

Aerospace Studies IV. Both semesters. Three credits each semester. Three class periods and one one-hour leadership laboratory period. Prerequisite: Air Force Aerospace Studies 196.

Broad range of American civil-military relationships and the environment in which defense policy is formulated with an emphasis on the role of the professional officer, the formulation and the implementation of national security policy and the impact of technology on defense planning. The system of military justice.

MILITARY SCIENCE

MISI 131. General Military Science I-A. One credit. One class period and lab.

Orientation course on the Reserve Officers' Training Corps and the United States Army. Emphasis on national security structure, organization of the Army and the Army in today's society.

MISI 132. General Military Science I-B. One credit. One class period and lab.

Orientation course on the United States Army. Emphasis on individual soldier skills, military instruction techniques and an introduction to military leadership skills.

MISI 145. General Military Science II-A. One credit. One class period and lab.

Study of military physical readiness programs, land navigation and mountaineering.

MISI 146. General Military Science II-B. One credit. One class period and lab.

Study of the conduct of unit formations, small unit tactical operations and military organizational leadership.

MISI 252. General Military Science III-A. Three credits. Two class periods, physical fitness training and lab. Prerequisite: Permission of Professor of Military Science.

Study of military leadership principles, techniques and responsibilities of command.

MISI 253. General Military Science III-B. Three credits. Two class periods, physical fitness training and lab. Prerequisite: MISI 252.

Study of the dynamics of military unit tactics. A three-day pre-summer camp orientation at a military installation is required.

MISI 297. General Military Science IV-A. Three credits. Three class periods, physical fitness training and lab. Prerequisite: MISI 253.

Study of military staff organization and military unit administration.

MISI 298. General Military Science IV-B. Three credits. Three class periods, physical fitness training and lab. Prerequisite: MISI 297.

Study of military law, obligations and responsibilities and contemporary human problems.

Special Student Services

Students with documented disabilities can be provided a wide range of support services via the Office of Special Student Services located in Willard 100. Services to special needs students are planned for and provided on an individual basis as mutually determined by the program director and student. Architectural barriers, attitudinal barriers, adaptive equipment, accessible housing, academic advising, rehabilitation agency sponsorship, sign-language interpreters and alternative methods of testing are just some of the issues in which assistance is available. Students are strongly encouraged to contact Dr. George Tenney at 827-7651/827-7651 -voice/TDD. (See Admissions Section —Special Student Services.)

International Students Program

Central Connecticut State attracts students from many countries. The International Affairs Center is the primary source for assistance for all international students.

Services include orientation to campus and community, academic advising, personal and cross-cultural counseling, and handling of all immigration matters including extension of stay and work permission. The International Affairs Center coordinates its services with other offices on campus (i.e., Residence Life, Financial Aid, Health Office, Registrar, Bursar, Admissions).

The office seeks to assist international students to learn about, adjust to and enjoy a new culture. Activities are planned to facilitate cultural awareness and sharing among international students and U.S. students and the community. Inquiries should be addressed to the International Student Adviser, International Affairs Center, Elihu Burritt Library 103 (827-7652).

Study Abroad Programs

Central Connecticut State University can place students almost anywhere in the world through a variety of arrangements.

International experiences may range from two weeks to one year in duration. The study abroad program's structure is a semester or year-long one-for-one exchange during which time students pre-pay tuition, room and board at Central Connecticut, enroll overseas and study via an immersion program.

Students may also take a course taught abroad by a CCSU professor in winter or summer sessions. Students

have a choice of a dozen courses each year offered by faculty in a variety of disciplines. Foreign language proficiency is generally not required. The cost is often little more than studying at Central Connecticut State. With proper planning, all course work completed abroad will transfer to Central Connecticut State and be applied toward graduation requirements.

To plan a study abroad program, contact the Study Abroad Coordinator in the International Affairs Center, Burritt Library 101 (827-7652). Generally, the application process requires eight months; therefore, it is advisable that students begin investigating their choices well in advance of their desired departure date.

Enrollment in courses taught abroad is through the College of Continuing Education. Students should also contact the International Affairs Center.

Honors Program

The Honors Program is a program for academically superior students regardless of major. Entering first year or transfer students with high scores on standardized tests, exceptional high school rank, or other evidence of outstanding academic ability as determined by the honors faculty are offered participation in the program. A limited number of merit scholarships covering in-state tuition and fees are awarded to Honors Program students on a competitive basis.

Honors Program students are required to complete 30 credits in the following courses: ANTH 225 — The Study of Culture (3 credits); ID 200 — Western Culture I,

a survey of western culture from its beginnings in the Classical and Semetic world to the end of the Roman period (6 credits); ID 201 — Western Culture II, a survey of western culture from the Middle Ages through the Enlightenment (6 credits); ID 310 — Western Culture III, a survey of western culture in the 19th century; (6 credits); ID 311 — Western Culture IV, a survey of western culture in the 20th century (6 credits); and ID 420 — Honors Research, independent research in western culture (3 credits). These courses are taken over a four-year period and are available only to Honors Program students. In addition, students are required to demonstrate proficiency in foreign language at the 126 level. Students who enter the program in the fall of their first year are required to take an honors section of ENG 110.

All Honors Program courses satisfy general education requirements, and the 24 credits in Western Culture I-IV may be used for any mode/area except Mode 2 and Areas B and D. ID 420 — Honors Research can be used for modal credit appropriate to subject matter. The ID courses cannot be used to satisfy the laboratory course requirement of Mode 8. Honors Program students may choose to graduate without a minor or concentration. Students who complete the program with an average grade of B in Honors Program courses will receive the designation "Honors Program Scholar" on their transcripts and diploma.

Inquiries should be addressed to the Director of Honors Program, Department of Philosophy, or to the Dean, School of Arts and Sciences.

COLLEGE OF CONTINUING EDUCATION AND SUMMER SESSION

Peggy Schuberth, *Acting Dean*

Francis Keefe, *Assistant Dean*

Carolyn Thornberry-Sullivan, *Assistant Dean*

Rita Brann, *Assistant to the Dean*

Meg Graglia, *Acting Assistant to the Dean*

(Phone 827-7423)

The College of Continuing Education serves individuals who wish to start or continue degree studies or pursue an avocation on a part-time basis. Approximately 600 course sections are offered each semester, encompassing all academic areas.

Part-time students may enroll in day or evening classes. Saturday morning classes are also available. A Continuing Education bulletin provides all the details and fees.

Persons having a high school diploma or an equivalency diploma may earn college credit through enrollment in Continuing Education courses. Others may enroll, for no credit, as auditors.

Part-time Matriculant Program

Application for part-time degree study is made in the Office of Undergraduate Admissions, which is located in the Davidson Hall (827-7543). Candidates for part-time admission are expected to meet the minimum qualification of 12 credit-hours of college work, completed at a "C" or 2.0 cumulative grade-point average. Candidates for the Part-time Matriculant Program should go to the College of Continuing Education (Willard Hall, 827-7423) to make an academic advising appointment as soon as they have decided to apply for admission to the program.

Part-time matriculants (PTMs) taking at least 6 credits a semester may be eligible for aid or loans under federally funded or assisted programs. Details are available in the Financial Aid Office.

Upon acceptance, the PTM's college transfer credits, if any, are evaluated by the Admissions Office and applied to the academic record at Central Connecticut State. The Transfer Evaluation is mailed to the student, who takes it to the relevant department chairperson, who in turn will assign the student an adviser.

PTMs register through the Continuing Education Office. Students who wish to take courses at other accredited institutions will not receive transfer credits unless prior approval is obtained in writing from the Registrar's Office.

To maintain their status, PTMs must register for classes in at least one of the regular academic semesters each year.

PTMs are eligible for graduation and Dean's List honors. For details, consult "Academic Standards and Regulations" in this catalog.

Office Hours

The Continuing Education Office is open Monday through Thursday, 8:30 a.m. to 8 p.m.; Friday, 8:30 a.m. to 3:45 p.m.; and during the academic year on Saturday, 8 a.m. to noon. Special hours for registration are advertised in the Registration Bulletin each semester.

Standards, Course Load, and Credits

Standards of quality for work done in the College of Continuing Education are the same as those regularly required by the University. All courses offer college credit unless otherwise specified.

Normally, part-time undergraduate Continuing Education students may register for up to a maximum of 11 credits.

Non-matriculated undergraduate students must apply for matriculation (acceptance into a planned program of study) before 30 credits are completed. Students will not be allowed to matriculate after completion of 30 credits without specific recommendation of an academic dean of the University and the Dean of Continuing Education.

Advisement

Undergraduates who plan to work toward a degree and need advice on course selection should consult a Continuing Education adviser before registration. Undergraduate part-time matriculants are assigned an adviser in their major department.

The Graduate Program

Information about graduate courses or master's programs may be obtained from the Graduate Bulletin or from the Dean of Graduate Studies. Part-time matriculated graduate students are assigned an adviser in their major department upon their admission.

Community and Extension Services

The College of Continuing Education has expanded its programs and services to meet the unique and changing needs of students. Individual credit and non-credit courses, workshops and seminars are available to students, community groups, civic organizations, businesses and industries.

Non-credit courses and certificate programs in the areas of personal improvement, leisure activities, and professional growth and development are offered through the College of Continuing Education.

Summer Session

During the summer Central Connecticut State operates two five-week sessions and one eight-week session. The first five-week session and the eight-week session begin in late May; the second five-week session begins in early July. Courses, both undergraduate and graduate, are offered in the day and evening.

Summer sessions are designed to provide opportunities for 1) incoming first-year students who wish to accelerate their college work by entering the University before the normal beginning of the academic year; 2) students from other colleges; 3) Central Connecticut State's students who wish to accelerate their studies toward a degree; 4) teachers and other graduate students who wish to pursue a master's or other advanced degrees; 5) graduates of other colleges interested in meeting certification requirements for teaching; and 6) qualified high school students seeking college-level courses.

During the 1992 summer session approximately 5,000 students were enrolled.

Residence Facilities and Meals

Residence accommodations and meals are available for men and women. Commuting students may arrange for lunch and/or dinner at the University. The University Library, the Student Center and other facilities are available.

Course Load

The maximum load is 7 credits during each five-week summer session. The eight-week session is counted as part of the first five-week session.

Wintersession

During the winter break Central Connecticut State University operates an intensive three-week Wintersession which begins in early January and ends just before the start of the spring semester. Over 100 credit courses are offered allowing students to accelerate their college work. The maximum load is 4 credits.

SCHOOL OF GRADUATE STUDIES

William O. Sherman,
Acting Dean of Graduate Studies and Research
Drina M. Lynch, *Assistant Dean*

The School of Graduate Studies offers the degrees of Master of Science, Master of Arts, and the Master of Science in Organization and Management. For holders of a master's degree, the School of Graduate Studies offers the Sixth-Year Certificate in Educational Leadership and Reading. Planned programs of post-master's study are available in selected fields of study. A post-baccalaureate program leading to teacher certification in Connecticut and other states is also available.

Admissions Criteria

Admission to the School of Graduate Studies is based on the applicant's academic record. Prospective students must hold a bachelor's degree from a regionally accredited institution of higher education. The undergraduate record must demonstrate clear evidence of ability to undertake and pursue successfully advanced study in the graduate field.

A minimum undergraduate G.P.A. of 2.70 on a 4.00 scale (where A is 4.00), or its equivalent, and good standing (3.00 G.P.A.) in all post-baccalaureate coursework is required. Some graduate programs have established additional admissions requirements beyond the minimum requirements of the Graduate School. Prospective applicants should consult the graduate catalog or the academic department about admissions criteria for particular programs.

Applying for Admission

The Application for Admission form is available in the School of Graduate Studies (Davidson Hall, Room 125; 827-7265) and in other campus offices, including the College of Continuing Education in Willard Hall. This form contains information about the application and admission process, and must be submitted to the School of Graduate Studies office accompanied by a non-refundable application fee of \$20.

As part of the application and admissions process, the applicant must request that official undergraduate and graduate transcripts be sent to the School of Graduate Studies from every institution attended except Central Connecticut State University. Applicants who have attended Central Connecticut State University must list all dates of attendance so that their official record can be appropriately evaluated.

In addition to submitting the application form, the fee and the official transcripts, applicants must provide any additional evidence of admissibility (such as test scores, essays, letters of recommendation, etc.) which is required by the program to which they are making application.

Application Deadlines. The deadline for receipt of the application form and all transcripts and supporting materials is JUNE 1 for fall semester, and DECEMBER 1 for spring semester. International applicants should submit all application materials by May 1 for fall semester, and October 1 for spring semester to assure adequate time for processing visa applications and other arrangements.

Graduate Student Status

Full-time Student Status. A student who registers for 9 semester hours or more is considered a full-time student for tuition purposes. Full-time students register in the School of Graduate Studies.

Part-time Student Status. A student who enrolls in 8 or fewer semester hours is considered a part-time student for tuition purposes. Part-time students must register and pay fees through the College of Continuing Education.

All graduate students when first accepted for admission or re-admitted to Central Connecticut State must pay a non-refundable \$90 Enrollment Binder (applied to tuition) within the time specified on the bill. The balance of tuition/fees is due July 15 for the fall and January 3 for the spring.

Tuition and Fees

At this catalog printing, the proposed tuition and fees of graduate study for the 1993-94 academic year are as follows:

For **FULL-TIME Study** (course load of 9 or more semester hours):

	Connecticut Resident	Out-of State Resident
Tuition	\$ 1092.00	\$ 3044.00
State University Fee	\$ 270.00	\$ 664.00
General Fee	\$ 304.00	\$ 304.00
Student Activity Fee	\$ 27.00	\$ 27.00
Total Tuition/Fees	\$ 1693.00	\$ 4012.00

In addition, full-time graduate students are billed an annual Sickness Insurance Fee of \$242.00 in the fall semester. Those who already have adequate insurance may complete the waiver form which is a section of the University billing statement and return it to the University Health Services.

For **PART-TIME Study** (course load of eight or less semester hours):

Registration Fee	\$ 38.00
Courses numbered 100-499	\$ 130.00 per credit hour
Courses numbered 500-699	\$ 142.00 per credit hour

All fees are subject to change without notice.

Program Information

Central Connecticut State University offers graduate degree programs in 35 fields of study.

The Master of Arts (M.A.) degree signifies completion of at least 30 credit hours of advanced study, including research and/or thesis. Students in the M.A. program seek to expand their knowledge of the subject, and may specialize in an aspect of the subject relevant to their career goals. Students also choose an M.A. degree program when planning to continue their studies at the doctoral level.

The Master of Science (M.S.) degree is primarily a professional degree for educators and others seeking to enter or advance in public service professions. Degree programs include at least 30 hours of coursework; a thesis is optional. Most M.S. programs at Central Connecticut State are designed for certified teachers, although some departments admit students who have not completed certification, or who intend to pursue other professions.

The Master of Science in Organization and Management (M.S.O.M.) degree is an interdisciplinary program of 36 credit hours. Students prepare for leadership positions in public service, business and industry while completing coursework in one of three program options: General Business Management, Industrial/Technical Management, and Organizational and Managerial Communication.

The Sixth-Year Certificate provides graduate study beyond the master's degree for teachers and other educators. Presently offered only in two fields (Educational Leadership, Reading), the sixth-year certificate signifies completion of a program of study designed to prepare the recipient for a high level of professional practice, leadership and responsibility in public education.

Initial certification programs are available for elementary, secondary, special and vocational education, as well as for specializations such as school counselor, media specialist, and reading consultant. Programs for the preparation of K-12 teachers in art, music and physical education are also available.

Requirements for the Master's Degree

The master's degree is conferred on the student who has completed, to the satisfaction of the faculty, at least 30 hours of approved graduate work. A student may elect, with the consent of the adviser, Plan A which requires 30 credits of graduate work including a thesis or Plan B which requires 30 credits of graduate work including a research course and a comprehensive exam.

Some departments offering the Master of Science degree have adopted a third option (Plan C) which requires a minimum of 30 credits in an approved planned program of graduate study and a thesis substitute, art exhibit or other special project.

Students should consult their adviser and the graduate catalog for further information.

Transfer of Graduate Credit

Students may request the transfer of credit for courses completed at another accredited institution of higher education. All credit presented for transfer must show an earned grade of B (3.00) or higher, must be included on the student's planned program of study at Central Connecticut State University, and must be completed within the six-year period preceding graduation and conferral of the graduate degree. Courses which were applied to a previously completed degree may not be transferred to a new degree program.

Transfer of credit is limited to the following:

- Up to 21 credits may be transferred from another Connecticut State University system campus. Regardless of the number of credits transferred from another University in the CSU system, no fewer than 15 credit hours in the student's degree program must be completed at Central Connecticut State, with at least 6 credits of the 15 in the student's area of specialization.
- Transfer of credits from accredited institutions other than universities in the CSU system is limited to 9 credits. In addition, any combination of coursework from CSU institutions and other accredited institutions is limited to a total of 9 credits.

Students who have been admitted to a graduate program should obtain prior written approval from the adviser and the graduate dean if they wish to take a course at another institution for transfer to their degree program at Central Connecticut State. Forms for requesting transfer of credit are available in the office of the Graduate School. Students without prior approval may not be able to use courses from other institutions as part of their planned programs. Students are responsible for requesting that an official transcript of any proposed transfer courses be sent to the Graduate School.

COURSES

Course Numbering

A summary of eligibility of students at the several levels:

- 001-099 Non-credit courses.
100 Search course.
101-199 Courses normally open to first-year students, and in general to all undergraduate students.
200-299 Courses normally open to sophomores, and in general to all undergraduate students.
300-399 Courses normally open to juniors, and in general to sophomores, juniors and seniors.
400-499 Courses normally open to seniors, and in general to juniors, seniors and graduate students.
500-599 Graduate courses; undergraduate students must have a 2.70 GPA and senior standing; also requires permission of adviser, chairperson of department offering the course, and permission of the graduate dean prior to registration. The necessary form is available in the Registrar's Office and in the School of Continuing Education.
600-699 Open to master's and sixth-year candidates.

When Courses are Available

If unspecified, the course is offered both semesters.

The marking of courses as available in an **odd year (O)** or an **even year (E)** refers to the **whole academic year**. Thus, a course scheduled for (O), odd year, would be given in an odd-starting academic year, such as 1993-94, that fall or the next spring. One marked (E), even year, would be available in an even-starting academic year, such as 1994-95, that fall or the next spring.

Computer Usage

Courses with the letter [c] may have **computer use activity** in some or all sections and may require Central Connecticut State computer use certification.

International Courses

Courses with the letter [I] have been designated as fulfilling the **international component** of the General Education requirements.

General Education: Courses under the Modes

The General Education program embraces eight Modes of Thought and four Areas. All students entering in the fall 1993 or later will be subject to the following program. Credit requirements for each mode are listed on page 28. The modes are:

1. Philosophical/Religious
2. Mathematical-Logical
3. Literary
4. Artistic
5. Historical
6. Behavioral
7. Social Scientific
8. Natural Scientific

The Areas are:

- A. Communication Skills
- B. Foreign Language/
International
- C. Supplemental
- D. Physical

Students who are matriculated as first-time students before fall 1992 follow a different general education program and should refer to catalogs in effect at the time of their matriculation.

Modal designations of General Education courses are as follows:

MODE 1: PHILOSOPHICAL/RELIGIOUS

- PHIL 100: Search in Philosophy
PHIL 112: Introduction to Philosophy
PHIL 150: Socrates
PHIL 220: Introduction to Logic
PHIL 222: Philosophy and Gender
PHIL 225: Nature, Mind and Science
PHIL 230: Ancient Greek Philosophy
PHIL 232: Medieval and Renaissance Philosophy
PHIL 240: Ethical Problems in Business
PHIL 242: Ethical Problems in Technology
PHIL 243: Philosophy, Science and Technology
PHIL 244: Moral Issues
PHIL 248: Philosophy of the Arts
PHIL 320: Modern Logic
PHIL 275: Chinese Philosophy
PHIL 330: 17th and 18th Century Philosophy
PHIL 331: Hellenistic Philosophy
PHIL 332: 19th Century Philosophy [I]
PHIL 343: Environmental Ethics
PHIL 344: Health Care Ethics
PHIL 345: Philosophy of Life, Death and Dying
PHIL 346: Ethical Theory
PHIL 349: Philosophy of Law
PHIL 355: Philosophy of Religion
PHIL 365: Marx and His Interpreters
PHIL 366: Existentialism [I]
PHIL 376: Buddhist Philosophy [I]
PHIL 382: Special Topics in Philosophy
REL 105: Development of Christian Thought [I]
REL 110: World Religions [I]
REL 357: Special Topics in Religion [I]

MODE 2: MATHEMATICAL/LOGICAL

A minimum of one course designated as Mathematics or Statistics is required in Mode 2.

CS 113:	Introduction to Computers
CS 115:	Workshop in Computer Science
CS 151:	Introduction to Computer Science
CS 207:	Introduction to Computer Graphics
CS 213:	Applications of Computer Programming
†MATH 103:	Number Systems
†MATH 105:	Fundamentals of Mathematics
MATH 115:	Trigonometry
MATH 121:	Pre-Calculus Mathematics
MATH 122:	Calculus I
MATH 125:	Applied Calculus I
MATH 126:	Applied Calculus II
MATH 140:	Finite Mathematics
MATH 203:	Logic and Geometry
MATH 221:	Calculus II
STAT 104:	Elementary Statistics
STAT 215:	Statistics for Behavioral Sciences I
STAT 216:	Statistics for Behavioral Sciences II

†No student is permitted to use both MATH 103 and MATH 105 to satisfy the General Education requirements.

MODE 3: LITERARY

ENG 111:	Introduction to Literature
ENG 205:	British Literature I
ENG 206:	British Literature II [I]
ENG 210:	American Literature I
ENG 211:	American Literature II
ENG 220:	Shakespeare
ENG 240:	Heritage of Western Literature I
ENG 241:	Heritage of Western Literature II [I]
ENG 250:	Contemporary Literature
†ENG 260:	Introduction to Poetry
†ENG 261:	Introduction to Fiction
†ENG 262:	Introduction to Drama [I]
ENG 288:	Studies in Literature
ENG 332:	Medieval English Literature
ENG 333:	The English Renaissance
ENG 334:	Seventeenth Century Poetry and Prose
ENG 335:	Restoration and Eighteenth Century Literature
ENG 336:	The Romantic Age [I]
ENG 337:	The Victorian Age [I]
ENG 339:	Modern British Literature [I]
ENG 340:	Early American Literature
ENG 341:	The American Renaissance
ENG 342:	American Realism and Naturalism
ENG 343:	Modern American Literature
ENG 360:	The Bible as Literature: Old Testament
ENG 361:	The Bible as Literature: New Testament
ENG 362:	Greek and Roman Literature
ENG 365:	The Modern European Novel [I]
ENG 441:	Hawthorne, Melville and James
ENG 445:	American Drama
ENG 448:	Studies in American Literature
ENG 450:	Chaucer
ENG 451:	Milton
ENG 458:	Studies in British Literature
ENG 461:	Shakespeare: Major Comedies
ENG 462:	Shakespeare: Major Tragedies
ENG 463:	Elizabethan and Jacobean Drama
ENG 464:	Restoration and 18th Century Drama
ENG 470:	The Victorian Novel [I]
ENG 474:	The Contemporary American Novel

ENG 475:	The British Novel to 1832
ENG 476:	The Modern British Novel [I]
ENG 477:	Modern British Poetry [I]
ENG 478:	Modern American Poetry
ENG 480:	Modern Irish Literature [I]
ENG 486:	Literature and Film
ENG 488:	Studies in World Literature
FR 305:	Literary Masterpieces Since 1800 [I]
FR 360:	Literary Masterpieces to 1800 [I]
GER 305:	Literary Masterpieces Since 1800 [I]
GER 360:	Literary Masterpieces to 1800 [I]
HUM 100:	Search in Humanities
HUM 150:	Topics in European Literature
ITAL 305:	Literary Masterpieces Since 1800
ITAL 360:	Literary Masterpieces to 1800
PHIL 275:	Chinese Philosophy [I]
PHIL 366:	Existentialism [I]
RUS 305:	Literary Masterpieces Since 1800
SPAN 305:	Literary Masterpieces Since 1700
SPAN 360:	Literary Masterpieces to 1700

†No credit given to students who have taken ENG 111.

MODE 4: ARTISTIC

ART 100:	Search in Art
ART 110:	Introduction to Art History
ART 120:	Design I
ART 124:	Three-Dimensional Design
ART 126:	Graphic Design
ART 130:	Drawing I
TE 110:	Technological Systems
ART 230:	Drawing II
ART 250:	Watercolor Painting
ART 252:	Painting I
ART 260:	Ceramics I
ART 261:	Sculpture I
ART 264:	Design—Handcraft Materials and Techniques I
ART 340:	Printmaking I
ART 343:	Serigraphy I
ART 360:	Ceramics II
ART 408:	The Art of Greece in the Bronze Age
ART 409:	Studies in Art History
ART 410:	Greek and Roman Art
ART 412:	Oriental Art [I]
ART 414:	American Art
ART 415:	The African Diaspora [I]
ART 416:	Modern Art
ART 418:	Renaissance Art
ART 421:	Design — Advertising I
ART 422:	Design—Two and Three Dimensional
ART 452:	Advanced Painting I
ART 464:	Design — Handcraft Materials and Techniques
ART 466:	Design—Jewelry
ART 494:	Location Studies — Art [I]
ENG 386:	The Language of Film
FA 490:	Integrating the Fine Arts for the Young Learner
MUS 109:	Fundamentals of Music
MUS 110:	Introduction to Music
MUS 111:	World Music
MUS 112:	Computer Applications to Music
MUS 113:	History of Jazz
MUS 140:	Ensemble
MUS 141:	Chorus
MUS 142:	Band-Wind Ensemble
MUS 143:	Orchestra
MUS 144:	Marching Band
MUS 170:	Theory of Music I
MUS 177:	Applied Music
MUS 250:	Piano Class I

MUS 251: Piano Class II
 MUS 264: Voice Class
 MUS 270: Theory of Music II
 MUS 350: Piano Class III
 MUS 351: Piano Class IV
 MUS 401: Topics in Music
 MUS 470: Musical Structure and Style
 PHIL 248: Philosophy of the Arts
 TH 100: Search in Theatre
 TH 110: Introduction to Theatre
 TH 111: Stagecraft
 TH 115: Play Production
 TH 117: Lighting
 TH 121: Costuming
 TH 135: Speaking-Voice Development
 TH 143: Theatre Games and Improvisation
 TH 145: Acting I
 TH 151: Directing I
 TH 212: Stage Mechanics
 TH 213: Scene Painting I
 TH 214: Scene Painting II
 TH 217: Sceno-Graphic Techniques
 TH 222: History of Fashion
 TH 489: Studies in Theatre/Drama
 TH 490: Summer Theatre Workshop

MODE 5: HISTORICAL

The following courses are particularly recommended for Mode 5:

HIST 100: Search in History
 HIST 121: World Civilization I
 HIST 122: World Civilization II [I]
 HIST 142: Western Civilization I
 HIST 143: Western Civilization II [I]
 HIST 231: Ancient Civilization
 HIST 232: Medieval Civilization
 HIST 261: History of American Life I
 HIST 262: History of American Life II

The following courses are also acceptable in Mode 5:

HIST 341: English History to 1715
 HIST 342: English History Since 1715 [I]
 HIST 344: History of Modern Germany [I]
 HIST 346: History of France: 1789 to Present [I]
 HIST 347: History of Russia I [I]
 HIST 348: History of Russia II [I]
 HIST 350: History of Poland [I]
 HIST 351: East Asia to 1800
 HIST 352: East Asia Since 1800 [I]
 HIST 355: History of the Hapsburg Empire, 1815-1918 [I]
 HIST 356: History of Eastern Europe Since 1919 [I]
 HIST 360: History of Connecticut
 HIST 361: The West in United States History
 HIST 369: African-American History
 HIST 370: History of Sport in the United States
 HIST 375: History of Africa to 1800
 HIST 376: History of Africa Since 1800
 HIST 377: History of Christianity I
 HIST 378: History of Christianity II
 HIST 381: Latin American History to 1823
 HIST 382: Latin American History Since 1823 [I]
 HIST 423: Colonial Period of American History
 HIST 424: Establishment of a New Nation
 HIST 425: Era of National Development
 HIST 426: The United States, 1850-1890
 HIST 427: The United States, 1890-1933
 HIST 428: The United States Since 1933
 HIST 430: Economic History of Europe [I]
 HIST 433: History of Ancient Greece
 HIST 434: History of Ancient Rome

HIST 435: History of Early Medieval Europe
 HIST 436: History of Later Medieval Europe
 HIST 439: European Diplomatic History Since 1870 [I]
 HIST 441: Renaissance and Reformation
 HIST 442: European History, 1650 to 1815
 HIST 443: European History, 1815-1918 [I]
 HIST 444: European History, 1918 to Present [I]
 HIST 445: European Intellectual History, 1750-1870 [I]
 HIST 446: European Intellectual History, 1870-Present [I]
 HIST 453: History of Modern China [I]
 HIST 454: History of Modern Japan [I]
 HIST 463: Constitutional History of the United States to 1900
 HIST 464: Constitutional History of the United States Since 1900
 HIST 465: Economic History of the United States
 HIST 466: History of American Technology
 HIST 467: Social and Cultural History of the United States I
 HIST 468: Social and Cultural History of the United States II
 HIST 469: African-Americans in the Twentieth Century
 HIST 472: Modern Middle East [I]
 HIST 473: History of Judaism
 HIST 474: History of the Arab-Israeli Conflict
 HIST 480: Modern Poland
 HIST 483: History of Inter-American Relations [I]
 HIST 484: History of Mexico [I]
 HIST 485: History of American Foreign Policy to 1920
 HIST 486: History of American Foreign Policy Since 1920
 HIST 488: American Business History
 HIST 489: American Labor History
 HIST 497: Topics in History
 PHIL 232: Medieval and Renaissance Philosophy

MODE 6: BEHAVIORAL

ANTH 100 Search in Anthropology
 ANTH 140: Introduction to Anthropology
 ANTH 150: Introduction Archaeology
 ANTH 151: Laboratory in Introductory Archaeology
 ANTH 160: Introduction to Physical Anthropology
 ANTH 210: The Ancient World
 ANTH 225: The Study of Culture [I]
 ANTH 250: Intercultural Communication [I]
 ANTH 265: Human Evolution
 ANTH 270: Psychological Anthropology [I]
 ANTH 318: New England Prehistory
 ANTH 320: Before History
 ANTH 322: Historical Archaeology
 ANTH 325: Human Ecology
 ANTH 329: Experimental Anthropology
 ANTH 339: Work and Culture
 ANTH 345: Forensic Anthropology
 ANTH 350: Gender in Tribal and Modern Societies
 ANTH 365: The Anthropology of Human Differences
 ANTH 370: Applying Anthropology
 ANTH 405: Connecticut Ethnicity
 ANTH 417: Connecticut Indians
 ANTH 422: North American Indians
 ANTH 426: People and Cultures of Eastern Europe [I]
 ANTH 428: Cultures of Latin America
 ANTH 430: Theories of Culture
 ANTH 440: The Supernatural
 ANTH 445: Folklore and Myth
 ANTH 450: Archaeological Field School
 ANTH 460: Industrial Archaeology
 ANTH 465: The Evolution of Human Behavior
 ANTH 470: Anthropology and Modern World Issues
 CJ 235: Introduction to the Criminal Justice System
 CJ 338: Sociology of Punishment
 COMM 443: Communication and Social Influence

ENG 200: Descriptive Linguistics I
 ENG 230: The Study of Language
 ENG 300: Language Acquisition
 ENG 400: Descriptive Linguistics II
 ENG 430: Studies in Linguistics and the English Language
 ENG 431: The History of the English Language
 IS 225: The World as a Total System
 IS 226: Intercultural Sensitivity [I]
 PSY 112: General Psychology I
 PSY 164: General Psychology II
 PSY 200: Learning and Memory
 PSY 235: Child and Adolescent Development
 PSY 236: Life-Span Development
 PSY 237: Applied Psychology
 PSY 240: The Psychology of Politics
 PSY 281: Cognitive Psychology
 PSY 363: Adolescent Psychology
 PSY 365: Psychology of the Exceptional Child
 PSY 390: Human Behavior and Sexuality
 PSY 428: Psychology of Adulthood
 PSY 430: Psychology of Minority Groups
 PSY 435: Organizational and Personnel Psychology
 PSY 448: Psychology of Women
 PSY 454: Drugs and Behavior
 PSY 480: Psychology of Dying and Death
 SW 100: Search in Social Work
 SOC 110: Introductory Sociology
 SOC 111: Social Problems
 SOC 217: Sociological Theory
 SOC 222: Research Methods
 SOC 225: Social Stratification
 SOC 231: Minorities and Social Inequality
 SOC 233: The Family
 SOC 234: Social Interaction
 SOC 240: Sex Roles and Sexism
 SOC 332: The Sociology of Poverty
 SOC 335: Sociology of Power
 SOC 336: Sociology of Deviance
 SOC 337: Sociology of Crime
 SOC 339: Juvenile Delinquency
 SOC 340: Sociology of Aging
 SOC 440: Death and Dying: Sociological Implications
 WS 200: Introduction to Women's Studies

MODE 7: SOCIAL SCIENTIFIC

ECON 200: Principles of Economics I
 ECON 201: Principles of Economics II
 ECON 435: Economic Development [I]
 ECON 450: Money, Credit and Banking
 ECON 462: Industrial Organization
 ECON 465: Government and Business
 ECON 470: Managerial Economics
 ET 497: Engineering Cost Analysis
 GEOG 100: Search in Geography
 GEOG 110: Introduction to Geography
 GEOG 120: World Regional Geography [I]
 GEOG 220: Human Geography [I]
 GEOG 241: Introduction to Planning
 GEOG 244: Economic Geography
 GEOG 256: Maps and Map Reading
 GEOG 272: Physical Geography
 GEOG 274: Elementary Climatology
 GEOG 275: Soils and Vegetation
 GEOG 290: Geography of Tourism [I]
 GEOG 330: United States and Canada
 GEOG 433: Issues in Environment Protection
 GEOG 434: Mexico, Central America and the Caribbean [I]
 GEOG 435: Japan and Korea [I]

GEOG 436: South America [I]
 GEOG 437: China [I]
 GEOG 439: Urban Geography
 GEOG 440: Rural Land Use Planning
 GEOG 441: Community and Regional Planning
 GEOG 442: Field Methods in Geography
 GEOG 443: Transportation Planning
 GEOG 444: Locational Analysis
 GEOG 446: Sub-Saharan Africa [I]
 GEOG 448: Russia and Neighboring Regions [I]
 GEOG 450: Tourism Planning
 GEOG 452: European Community
 GEOG 454: Geography of Tourism Marketing
 GEOG 459: Field Studies in Regional Geography (only 3 credits may be applied to General Education)
 GEOG 490: Connecticut
 IS 225: The World as a Total System
 IS 226: Intercultural Sensitivity [I]
 PHIL 349: Philosophy of Law
 PHIL 365: Marx and His Interpreters [I]
 PS 104: The World's Political Systems [I]
 PS 110: American National Government
 PS 230: American State and Local Government
 PS 231: Conduct of American Foreign Policy [I]
 PS 232: Ancient and Medieval Political Thought
 PS 235: International Relations [I]
 PS 240: Political Organizing
 PS 241: Women and American Law
 PS 320: Political Development in Africa and Latin America [I]
 PS 330: American Parties and Interest Groups
 PS 331: American Constitutional Law
 PS 332: Civil Liberties
 PS 334: Modern Political Thought
 PS 336: West European Governments [I]
 PS 338: International Organization [I]
 PS 339: International Law [I]
 PS 340: Public Administration
 PS 343: Political Leadership
 PS 344: Interpretation of Political Data
 PS 345: International Terrorism [I]
 PS 380: Conflict and Negotiation [I]
 PS 410: Democracy and Human Rights
 PS 415: Government, Business and Public Policy
 PS 430: The American Presidency
 PS 431: The Legislative Process
 PS 432: Urban Politics and Government
 PS 433: Twentieth Century Political Thought
 PS 434: Government and Politics of the Middle East and North Africa [I]
 PS 435: The Soviet Union and Eastern Europe [I]
 PS 436: Personnel and Human Resources in the Public Sector
 PS 438: Public Policy and Administration in Developing Nations [I]
 PS 448: The Politics of Human Services
 SOC 232: Cities and Urban Life Styles
 SOC 411: Population and Society

MODE 8: NATURAL SCIENTIFIC

BIO 100: Search in Biology
 BIO 111: Introductory Biology
 BIO 112: Introductory Biology Laboratory
 BIO 116: Introduction to Microbiology
 BIO 117: Human Biology I
 BIO 118: Human Biology II
 BIO 120: Plants of Connecticut
 BIO 121: General Biology I
 BIO 122: General Biology II

BIO 132:	Introductory Ecology
BIO 133:	Laboratory in Introductory Ecology
BIO 150:	Marine Studies Institute
BIO 211:	Concepts in Biology
BIO 221:	Invertebrate Zoology
BIO 222:	Vertebrate Zoology
BIO 226:	Non-Vascular Plants
BIO 227:	Vascular Plants
BIO 250:	Introduction to Human Genetics
BIO 318:	Anatomy and Physiology I
BIO 319:	Anatomy and Physiology II
BIO 442:	Plant Anatomy
BIO 444:	Local Flora Taxonomy
BIO 455:	Introduction to Horticulture
BIO 468:	Arthropod Biology
BIO 481:	Comparative Anatomy
CHEM 100:	Search in Chemistry
CHEM 102:	Chemistry of Nutrition
CHEM 104:	Chemistry in Everyday Life
CHEM 111:	Introductory Chemistry I
CHEM 118:	Fundamental Chemical Principles
CHEM 121:	General Chemistry I
CHEM 122:	General Chemistry II
ESCI 110:	Introduction to the Earth
ESCI 111:	Elementary Earth Science
ESCI 116:	Life of the Past: Fossils
ESCI 117:	Introduction to Astronomy I: The Solar System
ESCI 118:	Introduction to Astronomy II: Stars and Galaxies
ESCI 121:	Physical Geology
ESCI 122:	Historical Geology
ESCI 123:	Geology Laboratory
ESCI 129:	Introduction to Meteorology
ESCI 178:	Planetary Astronomy
ESCI 179:	Stellar Astronomy
ESCI 278:	Observational Astronomy
ESCI 424:	Geomorphology
ESCI 450:	Environmental Geology
PHYS 111:	Introductory Physics
PHYS 113:	Sound of Music
PHYS 115:	Physics of Sailing
PHYS 121:	General Physics I
PHYS 122:	General Physics II
PHYS 125:	College Physics I
PHYS 126:	College Physics II
PHYS 339:	Computer Electronics I
PHYS 340:	Computer Electronics II
SCI 100:	Search in Science
SCI 110:	Introductory Physical Science
SCI 113:	Earth, Energy and the Environment
SCI 115:	General Physical Science
SCI 120:	Topics in Natural Sciences

AREA A: COMMUNICATION SKILLS

COMM 115:	Fundamentals of Communication
COMM 140:	Public Speaking
COMM 280:	Business and Professional Speaking
COMM 285:	Communication Skills for Training and Development
COMM 360:	Parliamentary Law and Politics
ENG 108:	ESL Writing I
ENG 109:	ESL Writing II
ENG 110:	Freshman Composition (required)*
ENG 202:	Intermediate Composition
ENG 235:	Journalism I
ENG 236:	Journalism II
ENG 371:	Creative Writing (Short Fiction)
ENG 372:	Creative Writing (Short Fiction)
ENG 373:	Creative Writing (Poetry)
ENG 374:	Creative Writing (Poetry)

ENG 376:	Creative Writing (Essay)
ENG 377:	Creative Writing (Playwriting)
ENG 378:	Creative Writing (Rotating Genres)
ENG 380:	Feature Writing
ENG 381:	Editorial Writing
ENG 401:	Advanced Composition
ENG 403:	Technical Writing
ENG 416:	Magazine Writing
ENG 418:	Studies in Journalism
MC 207:	Managerial Communications

*An acceptable CCSU English Placement Test score or an appropriate equivalent is required for ENG 110. See under Skills Testing and Remediation Policy. The requirement of ENG 110 may be waived for a student by the English Department, but the 6-credit requirement in Mode I will not be reduced.

Students who have not completed their ENG 110 requirement prior to achieving junior standing (61 credits) will be required to take ENG 202 instead.

AREA B: FOREIGN LANGUAGE/INTERNATIONAL

*AS 490:	Overseas Study (East Asia and Other)
AS 497:	Seminar on East Asia (China)
AS 498:	Seminar on East Asia (Japan and Korea)
CHIN 111:	Elementary Chinese I [I]
CHIN 112:	Elementary Chinese II [I]
CHIN 125:	Intermediate Chinese I [I]
CHIN 126:	Intermediate Chinese II [I]
FR111:	Elementary French I [I]
FR112:	Elementary French II [I]
FR114:	Basic French Review [I]
FR125:	Intermediate French I [I]
FR126:	Intermediate French II [I]
FR225:	French Composition and Diction [I]
FR226:	French Structure and Idiom [I]
GER 111:	Elementary German I [I]
GER 112:	Elementary German II [I]
GER 125:	Intermediate German I [I]
GER 126:	Intermediate German II [I]
GER 225:	German Composition and Diction [I]
GER 226:	German Structure and Idiom [I]
GRK 111:	Elementary Ancient Greek I
GRK 112:	Elementary Ancient Greek II
ITAL 111:	Elementary Italian I
ITAL 112:	Elementary Italian II
ITAL 125:	Intermediate Italian I
ITAL 126:	Intermediate Italian II
ITAL 225:	Italian Composition and Diction
ITAL 226:	Italian Structure and Idiom
ITAL 488:	Italian Life and Culture
JAPN 111:	Elementary Japanese I [I]
JAPN 112:	Elementary Japanese II [I]
JAPN 125:	Intermediate Japanese I [I]
JAPN 126:	Intermediate Japanese II [I]
JAPN 225:	Japanese Composition and Diction [I]
JAPN 226:	Japanese Structure and Idiom [I]
LAT 111:	Elementary Latin I
LAT 112:	Elementary Latin II
LAT 125:	Intermediate Latin I
LAT 126:	Intermediate Latin II
POL 111:	Elementary Polish I [I]
POL 112:	Elementary Polish II [I]
POL 125:	Intermediate Polish I [I]
POL 126:	Intermediate Polish II [I]
RUS 111:	Elementary Russian I [I]
RUS 112:	Elementary Russian II [I]
RUS 125:	Intermediate Russian I [I]
RUS 126:	Intermediate Russian II [I]
RUS 225:	Russian Composition and Diction [I]
RUS 226:	Russian Structure and Idiom [I]
SPAN 111:	Elementary Spanish I [I]
SPAN 112:	Elementary Spanish II [I]

*No more than 3 credits can be applied to General Education.

SPAN 114: Basic Spanish Review [I]
 SPAN 115: Conversational Spanish I [I]
 SPAN 125: Intermediate Spanish I [I]
 SPAN 126: Intermediate Spanish II [I]
 SPAN 190: Spanish for Spanish Speakers I [I]
 SPAN 191: Spanish for Spanish Speakers II [I]
 SPAN 225: Spanish Composition and Structure [I]
 SPAN 226: Spanish Structure and Idiom [I]

AREA C: SUPPLEMENTAL

Courses below and/or courses in any of the Modes preceding may be substituted.

AC 211: Introduction to Financial Accounting
 AC 401: Federal Income Tax I
 COMM 230: Introduction to Mass Media
 ENT 205: Introduction to Entrepreneurship
 ET 150: Intro to Engineering Technology
 ET 454: Transportation/Land
 ET 456: Material Analysis
 ET 497: Engineering Cost Analysis
 FIN 210: Personal Financial Planning and Investing
 IE 363: Industrial Computer Applications
 IE 460: Constructive Activities for Non-Technical Teachers
 IT 150: Construction Practices and Principles
 IT 360: Production Systems
 IT 410: Industrial Safety
 IT 411: Industrial Hygiene
 IT 414: Industrial Loss Control Management
 IT 433: Techniques of Conference Leading
 LAW 250: Principles of Law
 MKT 303: Marketing Principles
 MUS 335: Music History II
 PE 110: Concepts in Physical Education
 PE 210: Personal and Community Health
 PE 213: Anatomy in Physical Fitness
 PE 303: First Aid
 RDG 140: Reading Efficiency
 SPED 470: Educating the Handicapped Student
 TC 112: Instrument Drawing
 TC 113: Introduction to Information Processing
 TC 114: Introduction to Energy Processing
 TC 118: Introduction to Material Processing
 TC 121: Technical Drafting and CAD
 TC 212: Graphic Arts Industries
 TC 213: Electrical Energy
 TC 214: Mechanical Energy
 TC 215: Materials and Processing
 TC 216: Material Processing II (Metallics)
 TC 217: Material Processing III (Plastics and Ceramics)
 TC 223: Electrical Circuits: DC
 TC 233: Electrical Circuits: AC
 TC 255: Materials of Construction
 TC 303: Electro-Mechanical Converters
 TC 313: Electrical Power Systems
 TC 323: Analog Circuits
 TC 333: Data Acquisition and Control
 TC 342: Porous Printing and Post-Press Operations
 TC 352: Graphic Design and Typography
 TC 371: Plastics Processing Techniques
 TC 441: Architectural Drafting
 TC 442: Lithography
 TC 462: Advanced Graphic Arts Techniques
 TC 463: Programmable Logic Controllers
 TC 464: Transportation/Aerospace
 TC 472: Introductory and Publications Photography
 TE 110: Technological Systems
 TH 465: Creative Dramatics for Children

VTE 415: Principles of Vocational Education
 VTE 440: Human Relations in the Workplace
 WP 190: Keyboarding
 WP 204: Word Perfect — Basic

AREA D: PHYSICAL

DAN 150: Folk and Square Dance
 DAN 151: Modern Dance
 DAN 152: Beginning Ballet
 DAN 153: Intermediate Ballet
 DAN 155: Dancercise
 DAN 156: Slimnastics
 DAN 157: Beginning Jazz Dance
 DAN 158: Intermediate Jazz Dance
 MUS 144: Marching Band
 REC 120: Physical Fitness Activities
 REC 121: Cycling
 REC 124: Downhill Skiing
 REC 141: Volleyball
 REC 142: Softball
 REC 159: Trampolining
 REC 160: Racquetball
 REC 162: Badminton
 REC 163: Bowling
 REC 164: Fencing
 REC 166: Tennis
 REC 168: Weight Training
 REC 169: Golf
 REC 200: Beginning Swimming
 REC 230: Intermediate Swimming
 REC 232: Lifeguard Training
 REC 233: Water Safety Instructor's Course

ACCOUNTING

Enrollment in 300- and 400-level Business courses requires admission to the School of Business or permission of the Assistant to the Dean.

- AC 202 PRINCIPLES OF ACCOUNTING II 3
Prereq.: AC 201. Continuation of Principles of Accounting I. Basic theory and practice are related to the organization and operation of partnerships and corporations. Managerial control is emphasized with such topics as financial statement analysis, cash flow, budgeting and the role of taxes in influencing business decisions. *Will not be offered after Fall 1993. Area C.*
- AC 210 PRINCIPLES OF INDUSTRIAL ACCOUNTING 3
An introductory study of the measurement of financial position, net income, manufacturing costs, cost behavior, direct costing, standard costs and budgeting. Emphasis on the managerial uses of accounting data in industry. *IT majors only.*
- AC 211 INTRODUCTION TO FINANCIAL ACCOUNTING 3
Prereq.: MAT 101 or equivalent and sophomore standing. Basic concepts and practice of accounting's role in providing information to external users to aid their decision-making activities. Topics include the preparation of financial statements and accounting for cash, receivables and payables, inventories, prepaid expenses and long-term assets. *Business majors cannot receive General Education credit for this course. No credit given to students with credit for AC 201. Area C [c]*
- AC 212 INTRODUCTION TO MANAGERIAL ACCOUNTING 3
Prereq.: AC 211, MIS 201 (may be taken concurrently), and sophomore standing. Basic concepts and practice of accounting's role in providing information to managers to assist in their planning, control, and decision-making activities. Topics include cost accounting systems, cost behavior relationships, analyses for managerial decisions, and the budget process. *No credit given to students with credit for AC 202 or AC 303.*
- AC 301 COST ACCOUNTING I 3
Prereq.: AC 202 or AC 212. Basic principles of cost accounting are developed together with application in formulation of cost accounting procedures. Elements of production, distribution and financial costs are treated with special emphasis on implications of resulting cost information for management. Consideration of job order, process and standard cost procedures.
- AC 302 COST ACCOUNTING II 3
Prereq.: AC 301. Advanced topics in cost accounting are developed together with application in formulation of cost accounting procedures. Elements of production, distribution and financial costs are treated with special emphasis on implications of resulting cost information for management. Consideration of job order, process and standard cost procedures.
- AC 303 MANAGERIAL ACCOUNTING 3
Prereq.: AC 202. This course in accounting for non-accounting majors, minors and concentrates covering the use of accounting data to plan and control business activities; includes analysis of financial statements, cost concepts and applications. Emphasis is on analyzing accounting data for effective management. *Will not be offered after Spring 1994.*
- AC 311 INTERMEDIATE ACCOUNTING I 3
Prereq.: AC 202 or AC 212. Analysis of enterprise economic resources and obligations, including methods of measurements and recognition. Current financial reporting issues are studied with reference to the FASB Conceptual framework and pronouncements of authoritative standard-setting agencies.

- AC 312 INTERMEDIATE ACCOUNTING II 3
Prereq.: AC 311. Continuation of Intermediate Accounting I, with special emphasis on measurement and recognition issues pertaining to non-current assets, long-term liabilities, contributed capital and retained earnings.
- AC 313 INTERMEDIATE ACCOUNTING III 3
Prereq.: AC 312. Continuation of AC 312. Designed to further prepare students for professional competency. Topics include accounting for taxes, post employment benefits, leases, cash flows, earnings per share, changes and errors, ratio analysis, and price level changes.
- AC 330 ACCOUNTING FOR NON-PROFIT INSTITUTIONS 3
Prereq.: One year of elementary accounting. Comprehensive survey of governmental and other non-profit institution accounting as it relates to budgeting, cost accounting and financial reporting. Statutory influences which direct and control operation funds, bonded debt, fixed assets, investments, revenue and expenditure classification, general property taxes and inter-fund relationships are subjected to detailed study.
- AC 401 FEDERAL INCOME TAX I 3
Centers upon and gives practice in preparation of federal income tax returns for individual taxpayers. *Open to all students. Area C*
- AC 402 FEDERAL INCOME TAX II 3
Prereq.: AC 401 or permission of instructor. Detailed course on taxability of corporation income, allowable and unallowable deductions, net operating losses and capital transactions. Also contains material on corporate reorganizations, personal holding companies and potentialities of taxes on undistributed surplus. Includes background of partnership, estate and trust tax law and history of tax legislation.
- AC 403 ESTATE TAXATION AND PROBATE ACCOUNTING 3
Prereq.: AC 401. A basic course in estate taxation and probate accounting. Area coverage includes: Post-mortem tax planning, examination of the U.S. Estate & Fiduciary tax returns, and probate accounting rules.
- AC 407 ADVANCED ACCOUNTING 3
Prereq.: AC 312. Partnership accounting, consignments and installation sales, parent and subsidiary accounting, consolidations and mergers, agencies and branches.
- AC 408 CONTEMPORARY ACCOUNTING PROBLEMS 3
Prereq.: AC 407 and senior standing. Advanced topics in contemporary accounting theory. Integrated review for students majoring in accounting.
- AC 410 AUDITING 3
Prereq.: Accounting major with senior standing. Duties and responsibilities of auditor, kinds of audits, review of accounting theory in its application to work of auditor, internal control and relationship to auditing procedures, auditing working papers, financial statements and reports.
- AC 440 ACCOUNTING INFORMATION SYSTEMS 3
Prereq.: AC 407. Principles and practices applied to the analysis, design, and implementation of effective accounting information systems into organizations. The important role played by computers and internal control systems in the development of accounting information systems is stressed. *[c]*
- AC 499 ACCOUNTING SEMINAR 3
Prereq.: AC 301, 312, 401, either 410 or 440, and a 2.80 GPA. Taken concurrently with cooperative education placement. Accounting is-

sues arising from current practice are examined in a professional seminar setting. Emphasis is placed on developing those skills required to interpret and analyze technical issues and solve complex problems in an interactive group.

ACTUARIAL SCIENCE

ACTL 400 REVIEW—SOA COURSE 100 2
Prereq.: MATH 222 and 228 (may be taken concurrently). Review and extension of the principles of calculus as related to the material on the Society of Actuaries (SOA) Course 100 Exam. *Spring*.

ACTL 410 REVIEW—SOA COURSE 110 2
Prereq.: STAT 416. Review and extension of the principles of probability and statistics as related to the material covered on the SOA Course 110 Exam. *Fall*.

ACTL 420 REVIEW—SOA COURSE 120 1
Prereq.: STAT 216 or STAT 416. Review and extension of the principles of applied statistics as related to the material covered on the SOA Course 120 Exam. *Spring*.

ACTL 430 REVIEW—SOA COURSE 130 1
Prereq.: MATH 470. Review and extension of the principles of operations research as related to the material covered on the SOA Course 130 Exam. *Spring*.

ACTL 435 REVIEW—SOA COURSE 135 1
Prereq.: MATH 477. Review and extension of the principles of numerical analysis as related to the material covered on the SOA Course 135 Exam. *Spring*.

ACTL 440 REVIEW—SOA COURSE 140 1
Prereq.: MATH 335. Review and extension of the principles of the theory of interest as related to the material covered on the SOA Course 140 Exam. *Spring*.

ACTL 444 ACTUARIAL MATHEMATICS 3
Prereq.: STAT 315. Topics are chosen from: survival distributions and life tables, life insurance, life annuities, net premiums, premium reserves, multiple life functions, multiple decrement models, valuation theory for pension plans, insurance models including expenses, and nonforfeiture benefits and dividends. *Fall. (O)*

ACTL 450 REVIEW—SOA COURSE 150 2
Prereq.: ACTL 444. Review and extension of the principles of Actuarial Mathematics as related to the material covered on the SOA Course 150 Exam. *Spring*.

ACTL 480 TOPICS IN ACTUARIAL SCIENCE 1-3
Prereq.: Permission of the instructor. Topics chosen from theory of interest, life contingencies, risk theory, elements of graduation and mortality table construction. May be repeated with different topics for a maximum of 6 credits. *Irregular*.

ANTHROPOLOGY

ANTH 100 SEARCH IN ANTHROPOLOGY 3
Introduction to processes and value systems of anthropology. Theme and title may vary from section to section. *Mode 6*

ANTH 140 INTRODUCTION TO ANTHROPOLOGY 3
Major fields of anthropology; physical anthropology, prehistory and ethnology, with emphasis on the distinctive perspectives of anthropology as a cultural and human science. *Mode 6*

ANTH 150 INTRODUCTION TO ARCHAEOLOGY 3
Survey of methods used in the acquisition, analysis and interpretation of archaeological data and how those data are used in culture reconstruction. *Mode 6*

ANTH 151 LABORATORY IN INTRODUCTORY ARCHAEOLOGY 1
An introductory archaeology laboratory course to accompany, or follow, ANTH 150. During the semester four full days of field and/or lab work are required, ordinarily on weekends. Not open to students who have taken ANTH 450. *Mode 6*

ANTH 160 INTRODUCTION TO PHYSICAL ANTHROPOLOGY 3
Introduction to the anthropological study of the human species. Course will cover humans as members of the primate order, human genetics, evolution and variation, stressing anthropological perspective of interaction of physical, environmental and cultural factors. *Mode 6*

ANTH 210 THE ANCIENT WORLD 3
A scientific examination of the mysteries of the ancient world. Astronomical, mathematical, architectural and medical achievements of prehistoric peoples are considered, as well as possible explanations for these, ranging from ancient astronauts to human ingenuity. *Mode 6*

ANTH 225 THE STUDY OF CULTURE 3
Human ways of life and how to investigate them. Introduces basic skills and knowledge necessary for the description, analysis and understanding of cultures. *Mode 6 [I]*

ANTH 250 INTERCULTURAL COMMUNICATION 3
A study of communication variables which affect intercultural encounters. Communication problems which arise from cultural differences explored together with types of culture diffusion. *Mode 6 [I]*

ANTH 265 HUMAN EVOLUTION 3
Prereq.: ANTH 140 or 160 or permission of instructor. The story of the human species from the earliest primate to modern *Homo sapiens*. Includes basic genetics, evolutionary theory and skills for studying the fossil record. *Mode 6*

ANTH 270 PSYCHOLOGICAL ANTHROPOLOGY 3
Cross-cultural studies of the human life-cycles: maturation, socialization, enculturation in different cultural and natural environments. The human individual in a world-wide, species-wide comparative perspective. *Mode 6 [I]*

ANTH 318 NEW ENGLAND PREHISTORY 3
Prereq.: ANTH 140 or 150 or permission of instructor. An examination of the prehistoric people of New England through analysis of fragmentary remains of their villages, burial grounds and trash deposits. Focus will be on sites excavated by the Anthropology Department at Central Connecticut State. *Mode 6*

ANTH 320 BEFORE HISTORY 3
Prereq.: ANTH 140 or 150 or permission of instructor. Considers the vast period of time before the development of writing. Investigates the first four million years of human existence. Human physical and cultural evolution from the first upright hominids to the builders of Stonehenge; the the cave painters of Europe to the ancient pyramid builders of the Americas. *Mode 6*

ANTH 322 HISTORICAL ARCHAEOLOGY 3
An anthropological study of Euro-American cultural history, using documentary and artifactual data to interpret changing cultural patterns in post-contact New England. Specialized techniques of document research, field excavation and artifact analysis in historical archaeology are studied. *Mode 6*

- ANTH 325 HUMAN ECOLOGY 3
Prereq.: ANTH 140 or permission of instructor. Explores the relationship between humans and their environments. How humans have changed the face of the earth and to what extent different environments have influenced human biological and cultural evolution. *Mode 6*
- ANTH 329 EXPERIMENTAL ARCHAEOLOGY 3
Prereq.: ANTH 150 or permission of instructor. An investigation of the techniques used by archaeologists in the reconstruction of prehistoric technology. This course will include actual experiments in tool manufacture and use. *Mode 6*
- ANTH 339 WORK AND CULTURE 3
A cross-cultural exploration of humanity as creator and tool user. The nature of work, innovation, invention and the beliefs and values surrounding them in various cultures. *Mode 6*
- ANTH 345 FORENSIC ANTHROPOLOGY 3
Prereq.: ANTH 160 or permission of instructor. The anatomy of the human skeleton and the determination of gender, age, race and other factors such as disease and cause of death from skeletal remains. The application of such studies to traditional anthropological topics and to the provision of evidence in criminal cases. *Mode 6*
- ANTH 350 GENDER IN TRIBAL AND MODERN SOCIETIES 3
Prereq.: ANTH 140 or SOC 110. Overview of the diversity of gender systems cross-culturally and historically. Students will compare gender identities, roles and relations in diverse societies; examine biases in social science research; and integrate gender issues into their own understandings of the world. *Spring. Mode 6.*
- ANTH 365 THE ANTHROPOLOGY OF HUMAN DIFFERENCES 3
Prereq.: ANTH 140 or 160 or permission of instructor. The biological and cultural processes which have brought about the individual, sexual and "racial" variation of the human species. *Mode 6*
- ANTH 370 APPLYING ANTHROPOLOGY 3
Views methods and techniques to apply anthropological knowledge for practical results. Examines role of anthropology in medicine, education, social service, and the development and implementation of public policy in the U. S. and cross-culturally. *Fall. Mode 6*
- ANTH 375 ANTHROPOLOGICAL DATA ANALYSIS 3
Prereq.: MATH 104 or equivalent. Investigation of techniques in numerical analysis of anthropological data. Covers statistical methods of correlation, spatial analysis and factor analysis. Focuses on the application of various statistical methods to actual anthropological data. *Anthropology majors only.*
- ANTH 405 CONNECTICUT ETHNICITY 3
Prereq.: ANTH 140 and SOC 110 or permission of instructor. Analysis of ethnicity from anthropological perspective focusing on the demography, culture, history and interrelationships of Connecticut ethnic groups. Students are encouraged to research and write on their own families and communities. *Irregular. Mode 6*
- ANTH 417 CONNECTICUT INDIANS 3
A study of the Native American cultures of Connecticut, using archaeological and ethnohistorical source materials. *Mode 6*
- ANTH 422 NORTH AMERICAN INDIANS 3
Traditional American Indian cultures and contemporary problems facing them. Stresses the evolution of distinct ways of life in North America and the position of Native Americans in the United States and Canada today. *Mode 6*
- ANTH 426 PEOPLE AND CULTURES OF EASTERN EUROPE 3
A survey of culture in the nations of Eastern Europe concentrating on contemporary aspects of above. *Mode 6 [I]*
- ANTH 428 CULTURES OF LATIN AMERICA 3
Prereq.: ANTH 140 or SOC 110. Introduction to modern and tribal societies in Latin America. Objectives include tracing the historical roots of social and economic relations in Latin America today, and the diverse responses Latin Americans have made and are making to rapid social change. *Fall. Mode 6*
- ANTH 430 THEORIES OF CULTURE 3
Prereq.: ANTH 140 or 225 or permission of instructor. A historical survey of major schools of thought in socio-cultural anthropology. Include critical analysis of Evolutionist, Historicist, Functionalist, Structuralist, Interpretive and Marxist explanations with focus on post-1960s period. *Mode 6*
- ANTH 433 INDEPENDENT STUDIES IN ANTHROPOLOGY 3
Prereq.: Senior standing and permission of department chairperson. Directed study in anthropology. *On request.*
- ANTH 440 THE SUPERNATURAL 3
A study of the beliefs in gods and spirits, visions, rites relating to beings and powers of other realms, and the effects of religion, magic and witchcraft on human lives. Contrasts diverse forms of spirituality with varieties of naturalistic, materialistic and atheistic perspectives. *Mode 6*
- ANTH 445 FOLKLORE AND MYTH 3
The characteristics, meanings and functions of myths, legends, heroic epics, fairy tales, animal fables, proverbs, riddles, toasts, jokes and graffiti. From the folklorist and anthropological perspectives. *Mode 6*
- ANTH 450 ARCHAEOLOGICAL FIELD SCHOOL 3-6
Provides instruction in survey techniques, mapping, scientific excavation, photographic and laboratory skills and analysis. Field schools are operated in both Historical and Prehistorical Archaeology. Enrollment is limited. Send letter of application to department. May be repeated. *Summer. Mode 6*
- ANTH 460 INDUSTRIAL ARCHAEOLOGY 3
A survey of the industrial heritage of Connecticut and New England, from the early processing of agricultural products in gristmills, sawmills and fulling mills to the full industrialization of the region in the 19th century. Attention is given to the power systems, transportation networks, mining and manufacturing industries of this area. *Mode 6*
- ANTH 465 THE EVOLUTION OF HUMAN BEHAVIOR 3
Prereq.: ANTH 265 or permission of instructor. Examination of human behavior from the perspective of ethology including behavioral responses to our unique cultural environment. *Mode 6*
- ANTH 470 ANTHROPOLOGY AND MODERN WORLD ISSUES 3
Prereq.: ANTH 140 or SOC 110 or 111, or permission of instructor. Anthropological approaches to understanding and addressing contemporary world problems such as population, underdevelopment, ecological degradation, war and diplomacy, and cultural extinction. *Mode 6*
- ANTH 475 SEMINARS IN ANTHROPOLOGY 3
Examination of selected topics in anthropology.

AREA STUDIES

See also International Studies

- AS 490 OVERSEAS STUDY: EAST ASIA 6
Summer overseas in East Asia. *Area B*
- AS 497 SEMINAR ON EAST ASIA (CHINA) 3
Interdisciplinary seminar on East Asia (China). Anthropology-sociology, economics, geography, history, government and politics of China. Students from mentioned disciplines may take the seminar for credit in this discipline. *Fall. Area B*
- AS 498 SEMINAR ON EAST ASIA (JAPAN AND KOREA) 3
Interdisciplinary seminar on East Asia (Japan and Korea). Anthropology-sociology, economics, geography, history, government and politics of Japan and Korea since World War II. Students from mentioned disciplines may take the seminar for credit in this discipline. *Spring. Area B*

ART

*Indicates that a successful portfolio review is required before enrollment.

- ART 100 SEARCH IN ART 3
Introduction to nature and structure, processes and implications of selected topics in fine and applied arts. Titles and contents may vary from section to section. *Mode 4*
- ART 110 INTRODUCTION TO ART HISTORY 3
General survey of historical development of visual arts in Western architecture, painting and sculpture. Credit not given to students who have taken ART 112 or ART 113. *Mode 4*
- ART 112 HISTORY OF WESTERN ART I 3
A survey of paintings, sculpture and architecture from prehistoric times to the Renaissance. No credit given to students with credit for ART 110.
- ART 113 HISTORY OF WESTERN ART II 3
Prereq.: ART 112. Continuation of ART 112. A survey of paintings, sculpture and architecture from the Renaissance to the present. No credit given to students with credit for ART 110.
- ART 120 DESIGN I 3
Exploration of spatial division, color, aesthetic theories and their relationships to typical design problems in two dimensions. *Mode 4*
- ART 124 THREE-DIMENSIONAL DESIGN 3
Introduction to design elements of architecture, environment design, sculpture, etc. Construction of three-dimensional assemblages required. *Mode 4*
- ART 126 GRAPHIC DESIGN 3
Overview of the field of graphic design and commercial art. Studio and seminar. *Mode 4*
- ART 130 DRAWING I 3
Fundamentals of drawing, composition, perspective and figure drawing. Varied techniques are employed. *Mode 4*
- ART 200 ART EDUCATION THEORY & PRACTICE I 3
Contemporary principles and practices in education through art in the elementary schools. Materials and processes recommended for these levels will be explored and evaluated. *Open to Art Education majors only.*
- ART 201 PRACTICUM IN ART EDUCATION I 3
Prereq.: ART 200. Actual teaching experience in Central Connecticut State's Saturday Art Workshop as a pre-student teaching requirement, accompanied by weekly seminars. *Open to Art Education majors only. Fall.*
- ART 222 GRAPHIC DESIGN SKILLS I 3
Prereq.: ART 130. Course acquaints the student with the skills, vocabulary, theory and pre-production technique of the graphic designer.
- *ART 224 ILLUSTRATION I 3
Prereq.: ART 130 or 322. Introduction of a variety of illustration techniques and procedures. Emphasis upon the selection and application of illustration techniques suitable for translating written or suggested material into visual form.
- ART 230 DRAWING II 3
Prereq.: ART 130. Continuation of Drawing I. An in-depth study in drawing techniques as applied to individual expression. *Mode 4*
- ART 233 PHOTO LAYOUT FOR GRAPHIC DESIGNERS 3
Prereq.: ART 222 and 230. Introduction to techniques and procedures necessary to solve photo layout problems. Emphasis upon selection of subject matter, three-dimensional design and lighting. *[c]*
- ART 250 WATERCOLOR PAINTING 3
Prereq.: ART 120 and 130. Styles and techniques of painting in transparent and opaque watercolors, with emphasis on individual creative expression. *Mode 4*
- ART 252 PAINTING I 3
Prereq.: ART 120 or 130. Exploration of techniques of painting in still life, landscape and creative composition. *Mode 4*
- ART 260 CERAMICS I 3
Functional and non-functional design in clay and glaze using various techniques. *Mode 4*
- ART 261 SCULPTURE I 3
Prereq.: ART 124. Introduction to creative sculpture: modeling, carving, constructing and assembling. Clay, firebrick, mass-produced objects and plaster will be used to develop figurative, abstract and non-objective sculpture. *Mode 4*
- ART 263 CRAFTS I 3
Creative structuring of materials and ideas into art forms through the use of tools and processes. *Open to majors only.*
- ART 264 DESIGN—HANDCRAFT MATERIALS AND TECHNIQUES I 3
Prereq.: ART 120 or 130. Varied handcrafts and materials are included. May not be substituted for ART 263. *Mode 4*
- ART 300 ART EDUCATION THEORY & PRACTICE II 3
Prereq.: ART 111 and 200. Contemporary methods for art teachers of children in grades 7-12. Comprehensive curriculum planning, materials and processes, and evaluation of teaching methods. *Required for Art Education majors.*
- ART 321 ART THEORY AND PRACTICE FOR THE ELEMENTARY TEACHER 3
Fundamental theories and practices for creative art activities in elementary school. *Open to Elementary Education majors only or permission of the department chairperson.*
- *ART 322 GRAPHIC DESIGN SKILLS II 3
Prereq.: ART 222 and 230. Extensive development of skills in the area of design. The student is exposed to concept theory, typographic considerations, professional critique and presentation technique as well as design practice. *[c]*
- *ART 324 ILLUSTRATION II 3
Prereq.: ART 224. Continuation of Illustration I.

ART 340	PRINTMAKING I	3	ART 414	AMERICAN ART	3
	Prereq.: ART 130. An introduction to planographic, relief and intaglio techniques as modes of artistic expression. <i>Mode 4</i>			Prereq.: ART 110 or 112 or 113. Historical development of painting, sculpture and architecture in America from the 17th century to the present. <i>Mode 4</i>	
*ART 343	SERIGRAPHY I	3	ART 415	THE AFRICAN DIASPORA	3
	Prereq.: ART 120 or 222. An introduction to basic stencil techniques and screen processes and their application to creative and artistic expression. <i>Mode 4</i>			Prereq.: ART 110 or MUS 110 or TH 110. An introduction to the fine arts contributions of African- American artists as expressed through their culture. The focus is on individual research and presentations on historical and contemporary topics. <i>Mode 4 [I]</i>	
*ART 344	LITHOGRAPHY I	3	ART 416	MODERN ART	3
	Prereq.: ART 230 or permission of department chairperson. An introduction to planographic printing techniques on litho plates as modes of artistic expression.			Prereq.: ART 110 or 112 or 113. Historical development of painting, sculpture and architecture from the late 19th century to the present. <i>Mode 4 [I]</i>	
*ART 352	PAINTING II	3	ART 418	RENAISSANCE ART	3
	Prereq.: ART 252. Continuation of Painting I.			Prereq.: ART 110 or 112 or 113. Historical development of European painting, sculpture and architecture from 1400 to 1600. <i>Irregular. Mode 4</i>	
*ART 353	PAINTING III	3	*ART 421	DESIGN—ADVERTISING I	3
	Prereq.: ART 352. Continuation of Painting II.			Prereq.: ART 120 or 130 or 422. Selected topics in design theory and application in merchandising. <i>Spring. Mode 4</i>	
ART 360	CERAMICS II	3	*ART 422	DESIGN—TWO AND THREE-DIMENSIONAL	3
	Prereq.: ART 260. Continuation of ART 260 with emphasis on wheel skills and glaze calculation. <i>Mode 4</i>			Explores design concepts through the use of paper, wood, metal, plaster, plastic. Relationship to other art forms, i.e., painting, sculpture, fashion, advertising will be part of course. Studio and seminar. <i>Mode 4</i>	
*ART 361	SCULPTURE II	3	*ART 424	ILLUSTRATION III	3
	Prereq.: ART 261. Continuation of Sculpture I.			Prereq.: ART 324. Topics in the development of individual media techniques.	
*ART 362	SCULPTURE III	3	*ART 430	DRAWING III — COLOR	3
	Prereq.: ART 361. Continuation of Sculpture II.			Prereq.: ART 230 or 251 or 431. Advanced course in drawing using a painterly approach. Strengthening of individual direction through an exploration of space composition, color, and surface in a variety of color drawing medium. <i>Fall.</i>	
*ART 366	HANDWROUGHT JEWELRY	3	*ART 431	LIFE DRAWING I	3
	Prereq.: ART 120 or 130. The basic principles of handwrought jewelry construction will be explored with emphasis on use of materials, tools and processes as they may be utilized in a simple studio setup.			Prereq.: ART 130 or 435. Drawing from the nude and clothed model, various media. <i>Open to majors only.</i>	
ART 401	PRACTICUM IN ART EDUCATION	2	*ART 432	LIFE DRAWING II	3
	Prereq.: ART 201. Must be taken concurrently with EDSC 429 or after completion of EDSC 429. Supervisory, mentoring, evaluatory experience in addition to supply ordering and exhibition installation for the CCSU Saturday Art Workshop. <i>Art Education majors only.</i>			Prereq.: ART 431 or permission of department chairperson. Continuation of Art 431. <i>Open to majors only.</i>	
*ART 405	COLOR THEORY	3	*ART 435	ADVANCED DRAWING	3
	Prereq.: ART 120. This course seeks to develop a concept of color through experiments in perception and production that will equip the student to make independent selections and control color usage.			Prereq.: Permission of department chairperson. Emphasis on development of expressive use of line and value. Various materials used including ink, pencil, conti crayon, chalk, wire, charcoal and others.	
ART 408	THE ART OF GREECE IN THE BRONZE AGE	3	*ART 436	GRAPHIC DESIGN SKILLS III	3
	Prereq.: ART 110. An introduction to the art of Greece in the Bronze Age. The artistic and cultural development of mainland Greece, Crete, the Aegean Islands and Western Asia Minor from the Paleolithic to the end of the Bronze Age. Emphasis on the art of flourishing Minoan and Mycenaean civilizations. <i>Mode 4</i>			Prereq.: ART 322 and 323. Course acquaints the student with the skills of the graphic designer. Special attention is given to a variety of techniques and application of skills in practical commercial design projects. <i>[c]</i>	
ART 409	STUDIES IN ART HISTORY	3	*ART 437	GRAPHIC DESIGN STUDIO INTERNSHIP	3
	Prereq.: ART 110 or 112 or 113. Selected topics in the history of art, announced each semester. Students may not take this course under the same topic more than once. <i>Mode 4</i>			Prereq.: ART 436 and permission of instructor. On-the-job experience through internship with professional commercial art or advertising concern. Classroom studio experience preceding and classroom discussion and portfolio preparation following the internship. <i>[c]</i>	
ART 410	GREEK AND ROMAN ART	3	*ART 438	GRAPHIC DESIGN SKILLS IV	3
	Prereq.: ART 110 or 112 or 113. Historical development of painting, sculpture and architecture from the Bronze Age through the Golden Age of Greece to the fall of the Roman Empire. <i>Irregular. Mode 4</i>			Prereq.: ART 436. Topics in advanced typographic, symbolic, collateral, campaign and package design theory and application. Emphasis on development of individual skills and techniques. Professional layout and comprehensive presentation technique stressed. <i>[c]</i>	
ART 412	ORIENTAL ART	3			
	Historical development of visual arts of Far Eastern societies: architecture, painting, sculpture and minor arts of China, India, Japan and Korea. <i>Spring. Mode 4 [I]</i>				

*ART 439 CENTRAL DESIGN 3
Prereq.: ART 322 and permission of instructor. Studio practice, design and production of printed materials. [c]

*ART 440 PRINTMAKING II 3
Prereq.: ART 340. Continuation of Printmaking I.

*ART 442 DESIGN—ADVERTISING II 3
Prereq.: ART 120. Alphabets, drawing and cutting letters, techniques of producing effective charts and posters. *Fall*.

*ART 443 SERIGRAPHY II 3
Prereq.: ART 343, graduate standing or permission of department chairperson. An extension of Serigraphy I.

*ART 444 LITHOGRAPHY II 3
Prereq.: ART 344 or graduate standing or permission of the department chairperson. An extension of Lithography I.

*ART 447 PHOTOGRAPHY 3
Prereq.: ART 120 or 130. Exploration of photography techniques as they may be used for individual creative expression. A camera is required.

*ART 450 WATERCOLOR PAINTING AND RELATED MEDIA 3
Prereq.: ART 250 or 435 or 422. This course will explore the various watercolor processes and the effects unique to each, i.e., tempera, aquarelle, water acrylics and colored inks. Historical and contemporary examples of watercolor techniques will be discussed.

ART 452 ADVANCED PAINTING I 3
Prereq.: ART 130 or 435 or 252. Exploration of varied qualities of painting media, historical and contemporary techniques and styles. *Mode 4*

ART 460 CERAMICS III 3
Prereq.: ART 360. Advanced clay and glaze techniques.

ART 462 ADVANCED SCULPTURE 3
Prereq.: ART 124 or 362 or 422. Students pursue directed assignments in several sculptural areas. Past and present styles discussed. Studio and seminar.

*ART 464 DESIGN—HANDCRAFT MATERIALS AND TECHNIQUES 3
Prereq.: ART 422 or 435 or 264. Continuation and extension of ART 264.

*ART 465 STUDIO TOPICS 1-3
Prereq.: To be stipulated at time of course offering. Selected topics in studio art, announced each semester. Students may not take this course for credit under the same topic more than once.

ART 466 DESIGN—JEWELRY 3
Prereq.: ART 120 or 366 or 435 or 422. Course exploring possibilities of materials and equipment in jewelry and metal work, with emphasis on design. *Mode 4*

*ART 468 CERAMICS IV 3
Prereq.: ART 460. Thesis—clay and glaze design used to express a statement in form.

*ART 469 ADVANCED CERAMICS I 3
Prereq.: ART 460. Emphasis on skills in wheel use, glazing and firing techniques.

ART 490 CURATORSHIP 3
Theory and practice in collection management, gallery and museum programming, and exhibition design. *On demand*.

ART 494 LOCATION STUDIES — ART 3 or 6
Direct contact with cultural resources internationally. Consideration of principles common to all arts and those unique to art and architecture. Field trips to exhibits, private collections, artist's ateliers, operas, and museums. Preparatory reading, discussion, critical analysis, and concluding projects. *Summer. Mode 4 [I]*

ART 498 INDEPENDENT STUDY 1-6
Prereq.: Seniors and advanced juniors in Art. Formal application to Art Department chairperson following procedure approved by the Art Department faculty. Individually planned program of independent study in Art or Art Education for students who wish to pursue specialized areas not covered in regular course offerings or go beyond that provided for in the program. Must be requested three weeks before new semester.

BIOLOGY

BIO 100 SEARCH IN BIOLOGY 3
Examination of historical perspectives and exploration of contemporary issues and problems in biological sciences. *Mode 8*

BIO 111 INTRODUCTORY BIOLOGY 3
Man and biological world, with emphasis on structure and function of the human organism, including topics on disease, heredity and evolution. BIO 121 or 122 may be substituted for this course. Three lectures per week.

BIO 112 INTRODUCTORY BIOLOGY LABORATORY 1
Prereq.: BIO 111 which may be taken concurrently. Laboratory course to accompany BIO 111. One three-hour laboratory per week. *Mode 8*

BIO 120 PLANTS OF CONNECTICUT 3
From Sea Lettuce to Mountain Laurel—an introduction to the form and function of plants, with emphasis on those which occur in Connecticut. Field work will include identification of algae, fungi, bryophytes and vascular plants collected from various habitats. Some laboratory methods for the study of these plants will be introduced. The equivalent of two lectures and one three-hour laboratory per week. Not open to Biology majors. *Summer. Mode 8*

BIO 121 GENERAL BIOLOGY I 4
Structural and physiological organization of cells involved in growth of living organisms is discussed. Consideration of growth of flowering plants and comparisons of levels of specialization reached among major groups within the plant kingdom. Lecture topics are paralleled in laboratory, where living, prepared and preserved materials are used for study and dissection. Three lecture and one three-hour laboratory per week. [c] *Mode 8*

BIO 122 GENERAL BIOLOGY II 4
Prereq.: BIO 121. Consideration of major animal groups, emphasizing diversity of animal life and its wide distribution. Vertebrate type is used to illustrate differentiation, division of labor, and development of organ systems, stressing integration to make unified whole. Embryology, genetics, evolution and ecology. In laboratory, living, prepared and preserved materials are used for study and dissection. Three lectures and one three-hour laboratory per week. [c] *Mode 8*

BIO 132 INTRODUCTORY ECOLOGY 3
An introductory biology lecture course which examines the inter-relationships of plants, animals and their environment. The biological aspects of man's place in the environment will be stressed. Three lectures per week. Cannot be used to meet requirements for major, minor or concentrate in Biology. *Mode 8*

BIO 133	LABORATORY IN INTRODUCTORY ECOLOGY	1	
	An introductory biology laboratory course in field ecology to accompany, or follow, BIO 132, Introductory Ecology. One three-hour laboratory or field trip per week. Cannot be used to meet requirements for major, minor or concentrate in Biology. <i>Mode 8</i>		
BIO 150	MARINE STUDIES INSTITUTE	4	
	Environmental simulation exercise on a site along Long Island Sound. On-shore and on-water activities in marine biology, geology and meteorology, in seamanship and piloting and in coastal zone management. <i>Summer. Mode 8</i>		
BIO 211	CONCEPTS IN BIOLOGY	3	
	Introduction to cellular, genetic, evolutionary and ecological principles with laboratory emphasis on application of basic concepts. Two lectures and one laboratory or field period per week. <i>[c] Mode 8</i>		
BIO 221	INVERTEBRATE ZOOLOGY	4	
	Prereq.: BIO 122. Structure, activities, life histories and evolutionary relationships of invertebrate phyla. Three lectures and one three-hour laboratory per week. <i>Mode 8</i>		
BIO 222	VERTEBRATE ZOOLOGY	4	
	Prereq.: BIO 122. Vertebrate classification and life histories of representative forms. Laboratory work will emphasize identification of North American species. Three lectures and one three-hour laboratory per week. <i>Mode 8</i>		
BIO 226	NON-VASCULAR PLANTS	3	
	Prereq.: BIO 121. Slime molds, bacteria, algae, fungi, lichens, liverworts and mosses. Life histories, relationships, distribution and significance to man are considered. Two lectures and one laboratory per week. <i>[c] Mode 8</i>		
BIO 227	VASCULAR PLANTS	3	
	Prereq.: BIO 121. Phylogenetic relationships, taxonomy, distribution and economic significance of vascular plants. Emphasis is placed on the seed plants. Two lectures and one three-hour laboratory per week. <i>Mode 8</i>		
BIO 250	INTRODUCTION TO HUMAN GENETICS	3	
	Prereq.: BIO 111 or equivalent. An introduction to basic principles of genetics and their application to human heredity, presented at a level not requiring an extensive background in biology. Topics include inheritance of human traits, genetic bases of human disorders, genetic counseling, pedigree analysis, eugenics and human future. Three lectures per week. <i>Not open to Biology majors. Mode 8</i>		
BIO 306	PRINCIPLES OF GENETICS	4	
	Prereq.: BIO 122, CHEM 121. Historical development of basic principles and modern concepts of genetics. Integrated survey of each of the major fields of genetics is presented. Three lectures and one laboratory per week. <i>[c]</i>		
BIO 316	MICROBIOLOGY	4	
	Prereq.: BIO 122, CHEM 121. Bacteria and other microorganisms with reference to welfare of man. Life cycles, infection, laboratory and culture techniques, and biology of immunity. Three lectures and two laboratory periods per week.		
BIO 318	ANATOMY AND PHYSIOLOGY I	5	
	Prereq.: BIO 122 or equivalent. Gross morphology of human body and brief consideration of histology, together with detailed study of various organ systems. Three lectures and two laboratory periods per week. <i>Spring. [c] Mode 8</i>		
BIO 319	ANATOMY AND PHYSIOLOGY II	1	
	Prereq.: BIO 318 (may be taken in the same or previous term). Continuation of BIO 318, Anatomy and Physiology I. Special emphasis		
	placed on metabolism, nutrition and the effects of aging on organ structure and function. <i>Spring. [c] Mode 8</i>		
BIO 390	SPECIAL PROBLEMS IN BIOLOGY	1-6	
	Prereq.: Written permission of instructor(s) and department chairperson to register. Specific research projects in various aspects of biology under the supervision of one or more department members selected by the student. Written report required.		
BIO 400	SEMINAR IN BIOLOGY	1	
	Seminar course open to senior biology majors in both the B.A. and B.S. programs and to graduate students only with permission of the department chairperson. Through individual readings, discussions and presentations, students will study contemporary topics in biology.		
BIO 405	ECOLOGY	4	
	Prereq.: Two organismic courses. Relation of plants and animals to environment in both terrestrial and aquatic communities. Physical and biotic factors as they affect population dynamics are considered. Three lectures and one three-hour laboratory a week. <i>Fall.</i>		
BIO 410	ECOLOGICAL PHYSIOLOGY	4	
	Prereq.: BIO 122 and 221 or 222 and CHEM 450, 451 or 312. A phylogenetic study of animal physiology in which the diversity of physiological adaptations for various habitats is stressed. Three lectures and one three-hour laboratory per week. <i>Spring.</i>		
BIO 411	CELLULAR PHYSIOLOGY AND METABOLISM	4	
	Prereq.: BIO 122, CHEM 450, 451 or 312. Cellular environment, some of the homeostatic mechanisms whereby the cell maintains a steady state. Structure of a cell in terms of its chemical composition and physicochemical and functional organization and certain aspects of cellular metabolism: permeability, respiration and energy metabolism, synthesis, and growth and differentiation. Specialized cellular functions such as excitation and contraction. Three lectures and one three-hour laboratory per week.		
BIO 412	HUMAN PHYSIOLOGY	3	
	Prereq.: BIO 122 or equivalent, CHEM 450 and 451 or 311 or permission of instructor. Study of the human body and its reactions to internal and external environmental changes. Physiology of the musculoskeletal, nervous, circulatory, respiratory, excretory and endocrine systems is considered. Integrative mechanisms of the system are emphasized. <i>Fall.</i>		
BIO 413	HUMAN PHYSIOLOGY LABORATORY	1	
	Prereq. or Coreq.: BIO 412. Laboratory course to accompany BIO 412. One three-hour laboratory per week. <i>Fall.</i>		
BIO 416	IMMUNOLOGY	3	
	Prereq.: Junior standing and permission of instructor. Introduction to the structure of the immune system, the immunoglobulins, antigen-antibody interactions, infection immunity, lymphocytes, histocompatibility and genetic regulations. <i>Spring.</i>		
BIO 417	IMMUNOLOGY LABORATORY	1	
	Prereq. or Coreq.: BIO 416. Introduction to the anatomy and histology of the immune system and an introduction to some immunochemical and immunodiagnostic laboratory techniques involving the principles of precipitation, agglutination and immunoelectrophoresis. One three-hour laboratory per week. <i>Spring.</i>		
BIO 418	HUMAN ANATOMY, PHYSIOLOGY, PATHOPHYSIOLOGY	6	
	Prereq.: BIO 122 or equivalent, CHEM 450/451 or 311 or permission of instructor. Functional anatomy, physiology and pathophysiology of man. A review of cell physiology is followed by an in-depth analysis of muscular, circulatory, nervous, respiratory, excretory and endocrine systems with special applications to the health sciences. No credit to Biology majors who have received credit for BIO 412 or 318. <i>Summer.</i>		

BIO 434 LIMNOLOGY 4
Prereq.: BIO 122 or equivalent and CHEM 122. Investigations of the physical and biological nature of standing and flowing fresh water environments. Lecture, field work and data analysis will be included. Students should be prepared to take Saturday field trips. One two-hour lecture and one four-hour lab per week. *Fall. (O)*

BIO 436 ENVIRONMENTAL MANAGEMENT 3
Prereq.: Upper division students in science. An examination of the quality of the natural environment as a product of human activity. The study of the utilization of environmental resources using information systems, research, planning, development, regulation and financing functions to establish environmental priorities. Lecture and laboratory. *Irregular.*

BIO 440 ORGANIC EVOLUTION 3
Prereq.: CHEM 450, 451 or BIO 306. A study of the historical development of evolutionary concepts, the evidence of evolution, and the mechanisms involved in race formation and speciation. The roles of gene mutation, chromosomal aberrations, selection and other evolutionary factors are discussed. Three lectures per week. *Irregular.*

BIO 442 PLANT ANATOMY 3
Prereq.: BIO 121. Development of internal structure in roots, stems, leaves and flowers of the seed plants from the origin of these organs to maturity. Two lectures and one three-hour laboratory per week. *Irregular. Mode 8*

BIO 444 LOCAL FLORA TAXONOMY 3
Prereq.: BIO 121. Identification, classification and evolution of local plants with special emphasis on dicotyledons but including some other groups. Family relationship and distribution are stressed. Two lectures and one three-hour laboratory per week. *Irregular. Mode 8*

BIO 449 PLANT PHYSIOLOGY 3
Prereq.: BIO 411 or equivalent. Introductory course dealing with physiological processes in growth, development, nutrition and metabolism of plants. Two lectures and one three-hour laboratory per week. *Irregular.*

BIO 455 INTRODUCTION TO HORTICULTURE 3
A study of useful procedures and techniques in plant propagation, gardening and landscaping. Topics include selection and propagation of horticultural plants; seeding and transplanting of vegetables and flowers; selection and application of fertilizers; control of insects, diseases and weeds; planning of home ground; transplanting and pruning of ornamental and fruit trees; and establishment and maintenance of lawns. Two lectures and one three-hour laboratory per week. *Summer. Mode 8*

BIO 462 DEVELOPMENTAL BIOLOGY 4
Prereq.: BIO 411. Fundamental structural and functional aspects of development of organisms are studied. Cellular differentiation and primary morphogenesis are emphasized. Prepared materials and classical experimental exercises using living materials are used to illustrate patterns of development. Three lectures and one three-hour laboratory per week. *Irregular.*

BIO 468 ARTHROPOD BIOLOGY 3
Prereq.: BIO 122. Systematic approach to arthropods with emphasis on insects. Topics in morphology, physiology, evolution, land economics, importance of various groups are considered. Two lectures and one laboratory per week. *Spring. Mode 8*

BIO 472 PRINCIPLES AND TECHNIQUES OF ELECTRON MICROSCOPY 3
Prereq.: Permission of instructor, advanced undergraduate or graduate status, one year of college physics. Introduction to physical principles and biological applications of transmission electron microscopy. Preparation of specimens, operation of the electron microscope and photographic techniques taught. One lecture and two laboratory sessions per week. *Irregular.*

BIO 481 COMPARATIVE ANATOMY 4
Prereq.: BIO 122. Representative types emphasizing comparative morphology of various organ systems. Laboratory work chiefly on dog-fish, salamander and rabbit. Two lectures and two three-hour laboratories per week. *Irregular. Mode 8*

BIO 490 STUDIES IN BIOLOGY 1-4
Prereq.: Permission of the department and/or instructor. Selected studies in the biological sciences which are not offered presently in the curriculum of the department. Course may be repeated for different topics, but students may not take this course for credit under the same topic more than once. *Irregular.*

BIO 495 MOLECULAR BIOLOGY 4
Prereq.: BIO 306 or equivalent, permission of instructor. Introduction to the structure and function of DNA. Emphasis on approaches currently being used to analyze the expression of genes. Examination of regulated gene expression to cellular growth and differentiation. Three lectures and one three-hour laboratory per week. *Irregular.*

BUSINESS EDUCATION

BE 410 OFFICE EDUCATION METHODS 3
Prereq.: Senior status, MIS 201, Keyboarding Proficiency Examination and Word Processing Proficiency Examination or WP 204. Concepts underlying office systems technologies taught at the secondary level. Includes instructional methods and techniques, teaching and reference material, and the use of community resources. *[c] Spring.*

BE 450 OFFICE SYSTEMS APPLICATION SOFTWARE AND RECORDS MANAGEMENT 3
Prereq.: BE 410 Survey of selected office application software and evaluation techniques. Includes a discussion of records management, forms design, formatting and layout. *[c] Fall.*

CHEMISTRY

CHEM 100 SEARCH IN CHEMISTRY 3
Introduction to methods, procedures and intellectual processes in chemistry. Theme may vary from section to section. *Mode 8*

CHEM 102 CHEMISTRY OF NUTRITION 3
An introduction to nutrition, the basic nutrients, their chemistry, and their role in health. Two lectures and one two-hour laboratory period per week. *Fall. Mode 8*

CHEM 104 CHEMISTRY IN EVERYDAY LIFE 3
Basic descriptive chemistry and its practical application in household and consumer situations. Two lectures and one two-hour laboratory period per week. *Spring. Mode 8*

CHEM 111 INTRODUCTORY CHEMISTRY I 3
Introduction to fundamental concepts of chemistry; descriptive aspects of inorganic and organic chemistry. For Art, Technology, Elementary and other non-science majors. Two lectures and one two-hour laboratory period per week. *Mode 8*

CHEM 121 GENERAL CHEMISTRY I 4
Emphasizes relationships of basic chemical principles and theories to properties of substances, their reactivity and uses. Contributions to the quality of life are introduced. Intended for science and engineering students. Three hours of lecture, one three-hour laboratory per week. *Mode 8 [c]*

CHEM 122 GENERAL CHEMISTRY II 4
A continuation of CHEM 121 with greater emphasis on quantitative aspects. Three hours of lecture, one three-hour laboratory per week. *Mode 8*

- CHEM 301 ANALYTICAL CHEMISTRY 4
Prereq.: CHEM 122, MATH 121. Theory and practice of gravimetric and volumetric quantitative analysis; introduction to colorimetric analysis and methods of separation. Two lectures and two three-hour laboratory periods per week. *Fall. [c]*
- CHEM 311 ORGANIC CHEMISTRY I 4
Prereq.: CHEM 122. Principal classes of aliphatic and aromatic carbon compounds; compounds of industrial significance. Three lectures and one three-hour laboratory period per week. *Fall, Summer.*
- CHEM 312 ORGANIC CHEMISTRY II 4
Continuation of CHEM 311 with emphasis on special classes of carbon compounds. Three lectures and one three-hour laboratory period per week. *Spring, Summer.*
- CHEM 313 ORGANIC PREPARATIONS 1
Coreq.: CHEM 312. Emphasis on modern procedures for preparation and isolation of organic compounds. Students are introduced to the use of chemical literature. Not open to Chemistry minors or concentrates for fulfillment of program requirements except with permission of department. One three-hour laboratory period per week. *Spring.*
- CHEM 321 PHYSICAL CHEMISTRY I 4
Prereq.: CHEM 311, PHYS 126, MATH 221. Coreq.: CHEM 301. Thermodynamic approach to theory of gases, liquids, solids; study of laws of thermodynamics; theory of solutions and equilibria. Four lectures per week. *Fall. [c]*
- CHEM 322 PHYSICAL CHEMISTRY II 4
Prereq.: CHEM 321. Theory of electrochemical cells and ionic solutions, chemical kinetics, and quantum chemistry. Three lectures per week. *Spring.*
- CHEM 323 PHYSICAL CHEMISTRY LABORATORY 2
Coreq.: CHEM 322. Experimental work to accompany CHEM 322. Two three-hour laboratory periods per week. *Spring. [c]*
- CHEM 402 INSTRUMENTAL METHODS IN ANALYTICAL CHEMISTRY 4
Prereq.: CHEM 301, 312, 322. An advanced treatment of complex equilibria of analytical interest and instrumental methods in analytical chemistry. The laboratory emphasizes practical analytical problems and physio-chemical methods, including atomic absorption, spectrophotometric, coulometric, polarographic, potentiometric, electroanalytical and chromatographic methods. Two lectures and two three-hour laboratory periods per week. *Fall. [c]*
- CHEM 406 ENVIRONMENTAL CHEMISTRY 3
Prereq.: CHEM 301, 311. Nature and properties of pollutants, their interaction with each other and the environment, preventative and remedial methods of control. Laboratory concerned with sampling and analysis of pollutants. Two lectures and one two-hour laboratory period per week. *Spring.*
- CHEM 432 CHEMISTRY SEMINAR 1
Prereq.: CHEM 312, 321. Participants will prepare written and oral presentations on topics of current interest in various fields of chemistry. One conference per week. May be taken a maximum of three times for credit. *Spring.*
- CHEM 435 LITERATURE OF CHEMISTRY 2
Prereq.: CHEM 301, 311. Survey of English and foreign-language literature of chemistry; preparation of bibliographies and research papers. Journals are available in University Library for reference. Two conference hours per week. *Spring.*
- CHEM 438 INTRODUCTION TO RESEARCH 1-3
Prereq.: Permission of department. Research participation for senior students under faculty adviser. May be repeated for total of 3 credits.
- CHEM 450 BASIC ORGANIC AND BIOLOGICAL CHEMISTRY 3
Prereq.: CHEM 122. Selected topics in chemistry of biological processes: classes of organic compounds found in biological systems, their significance in nutrition and metabolism, energy production, and acid-base and related concepts as applied to body fluids as aqueous media. *Spring, Summer.*
- CHEM 451 BASIC ORGANIC AND BIOCHEMISTRY LABORATORY 1
Coreq.: CHEM 450. Experimental work to accompany CHEM 450. One laboratory period per week. *Spring.*
- CHEM 454 BIOCHEMISTRY 3
Prereqs.: CHEM 312, BIO 122 or equivalent. General principles of biochemistry, chemical constituents of cells, metabolic pathways, energies and biochemical regulators. Three lectures per week. *Spring.*
- CHEM 455 BIOCHEMISTRY LABORATORY 1
Coreq.: CHEM 454. Experimental work to accompany CHEM 454. One laboratory period per week. *Spring.*
- CHEM 458 INTERNSHIP IN CLINICAL CHEMISTRY 8
Prereq.: Approval of director of Clinical Chemistry program. Six-month internship in an approved hospital clinical chemistry laboratory. Required of all majors in Clinical Chemistry.
- CHEM 460 PRINCIPLES OF INORGANIC CHEMISTRY 3
Coreq.: CHEM 322. Electronic structure and theories of bonding as they relate to the structures of inorganic compounds. Three lectures per week. *Spring. [c]*
- CHEM 461 DESCRIPTIVE INORGANIC CHEMISTRY 3
Prereq.: CHEM 460. A study of inorganic reactions with emphasis on acid-base, substitution and oxidation-reduction reactions including those of polymeric, bioinorganic, coordination and organometallic compounds. Three lectures per week. *Fall. [c]*
- CHEM 462 INORGANIC CHEMISTRY LABORATORY 1
Coreq.: CHEM 460. A laboratory course to accompany or follow CHEM 460, concerned with the synthesis and characterization of inorganic compounds. One laboratory period per week. *Fall. [c]*
- CHEM 472 SPECTROMETRIC IDENTIFICATION OF ORGANIC COMPOUNDS 1 or 2
Prereq.: CHEM 313. or permission of department. A study of physical methods of structure determination with emphasis on infrared, ultraviolet, nuclear magnetic resonance and mass spectrometry. One or two three-hour laboratory periods per week. *Fall.*
- CHEM 485 TOPICS IN CHEMISTRY 3
Prereq.: Permission of instructor. Advanced treatment of chemistry topics in analytical chemistry, inorganic chemistry, organic chemistry and physical chemistry. May be repeated up to three times as topics are changed. Three lectures or two lectures and one laboratory period per week depending on topic.
- CHEM 490 SHORT COURSE IN CHEMISTRY 1
Prereq.: 16 credits in chemistry. A short course of in-depth coverage of a single topic. Topic varies as announced. May be repeated for a total of 6 credits. Not open to Chemistry minors or concentrates for fulfillment of program requirements except with permission of department.
- ## CHINESE
- CHIN 111 ELEMENTARY CHINESE I 3
Basic sounds and structure patterns of Mandarin-Chinese are established through a direct audio-lingual approach. Not open to students with one year of high school study. *Fall. Area B [I]*

CHIN 112 ELEMENTARY CHINESE II 3
Prereq.: CHIN 111. Continuation of Chinese 111. No credit given to students with previous credit for more advanced course work in Chinese except by permission of the department chairperson. *Spring. Area B*

CHIN 125 INTERMEDIATE CHINESE I 3
Prereq.: One year of college Chinese or equivalent. Further work on the patterns of Chinese structure with readings and conversation in the language. No credit will be given to students with previous credit for more advanced course work in Chinese except by permission of the department chairperson. *Fall. Area B [I]*

CHIN 126 INTERMEDIATE CHINESE II 3
Prereq.: CHIN 125. A continuation of Chinese 125. No credit will be given to students with previous credit for more advanced course work in Chinese except by permission of the department chairperson. *Spring. Area B [I]*

CHIN 341 THE CHINESE HERITAGE I 3
Prereq.: CHIN 125 or equivalent. Mainstreams of Chinese cultural development. Use of Chinese texts. *Fall. [I]*

CHIN 342 THE CHINESE HERITAGE II 3
Prereq.: Chinese 126 or 341 or equivalent. Continuation of CHIN 341. *Spring. [I]*

CHIN 351 MODERN CHINESE LITERATURE I 3
Prereq.: Chinese 342 or equivalent. Representative selections from modern Chinese authors are studied in the original texts. *Fall. [I]*

CHIN 352 MODERN CHINESE LITERATURE II 3
Prereq.: CHIN 351 Or equivalent. Continuation of Chinese 351. *Spring. [I]*

CHIN 410 BUSINESS CHINESE I 3
Prereq.: CHIN 342 or CHIN 352 or permission of instructor. Development of oral and written skills needed for conducting business in China with business firms. Study of the cultural attitudes of Chinese business people. *(E) [I]*

CHIN 411 BUSINESS CHINESE II 3
Prereq.: CHIN 410 or permission of instructor. Additional practice in the oral and written skill needed for conducting business in China; emphasis on commercial translation. *(E) [I]*

CHIN 475 CLASSICAL CHINESE I 3
Prereq.: CHIN 342 or 352, or permission of instructor. Introduction to classical Chinese literature with an emphasis on etymology, semantics and grammar of classical Chinese. *(O)*

CHIN 476 CLASSICAL CHINESE II 3
Prereq.: CHIN 475 or equivalent. Masterpieces of classical Chinese literature with an emphasis on the moral teachings of Confucius. *(O)*

COMMUNICATION

COMM 115 FUNDAMENTALS OF COMMUNICATION 3
Basic course offering the student an opportunity to understand and improve communication skills. Performance, observation and evaluation. May not be counted toward Communication major. *Area A*

COMM 140 PUBLIC SPEAKING 3
Study of and practice in the principal forms of public address. Additional emphasis on the needs and expectations of persons preparing for business and professional careers. *Area A*

COMM 215 INTRODUCTION TO INTERPERSONAL COMMUNICATION 3
Introductory survey of interpersonal communication theories and the application of these theories in dyadic, group and organizational contexts.

COMM 230 INTRODUCTION TO MASS MEDIA 3
A study of the structure, roles and processes of the mass media. Primary emphasis is on radio, television and film. Examination of effects on society. *Area C*

COMM 231 COMMUNICATION TECHNOLOGIES 3
Prereq.: COMM 230. An examination of how selected telecommunication systems such as satellite, computer networks, and teleconferencing influence the way we receive and process information; determine national, corporate and personal priorities and policies; allocate time, learn and are entertained.

COMM 245 INTRODUCTION TO RHETORICAL STUDIES 3
Prereq.: COMM 215 and 230. Roots of communication as a discipline and as an intellectual and practical field. Basic principles of persuasion, rhetoric, genres, and criticism.

COMM 255 VISUAL COMMUNICATION 3
Study of theoretical constructs, key agents, and applications of knowledge of visual communication. *On demand.*

COMM 268 INTERPRETING FOR THE DEAF AND HEARING IMPAIRED PRACTICUM 3
Prereq.: 6 credits of American Sign Language or permission of instructor. Practicum in visual communication for students and professionals working with the deaf and hearing impaired. *On demand.*

COMM 280 BUSINESS AND PROFESSIONAL SPEAKING 3
Principles of communication in report making, parliamentary processes, interpersonal conferences and related managerial functions. Emphasis on understanding and practicing patterns of communication in various organized settings. *Area A*

COMM 285 COMMUNICATION SKILLS FOR TRAINING AND DEVELOPMENT 3
Survey and application of communication strategies for training and development in public and private corporate and institutional settings. *Area A*

COMM 301 CRITICAL THINKING 3
Prereq.: COMM 245. Development of critical thinking skills as a basis for thoughtful and effective communication. Analysis of arguments and persuasive appeals.

COMM 302 PROBLEM-SOLVING AND DECISION-MAKING 3
Prereq.: COMM 245. Introduction to small group interaction processes with emphasis on fundamental forms of communication in all discussion settings. (May require group meetings outside of class.)

COMM 303 CONTROVERSY AND NEGOTIATION 3
Prereq.: COMM 245. A systematic exploration of the nature of oral controversy and its impact on behavior. *Fall.*

COMM 330 BASIC VIDEO PRODUCTION 3
Prereq.: COMM 230, 231. An introduction to television production as it relates to verbal and visual communication. Work on individual and crew projects is a requirement.

COMM 331 TELEVISION PERFORMANCE 3
Prereq.: COMM 330. Techniques used in communicating ideas on television. Students will have an opportunity to present news, weather, and sports material, and do commercials and public service announcements on camera. *Fall.*

COMM 335 COMMUNICATION MANAGEMENT 3
Prereq.: COMM 230, 231, 330. Communication management in broadcast, cable, closed-circuit or related environments. Facility planning, scheduling, personnel supervision, programming, sales, marketing strategies and government regulations are explored.

COMM 336 MEDIA LITERACY 3
Prereq.: COMM 230. A review of current changes in philosophy, content and processes in media use and application as this use affects society and its value system.

COMM 337 MEDIA CAMPAIGNS 3
Prereq.: COMM 230. Analysis of the media strategies utilized by ad agencies, political agencies and corporations to promote a product, idea or service by influencing attitudes or changing behavior.

COMM 345 RADIO AND TELEVISION SCRIPTING 3
Prereq.: COMM 330 or permission of instructor. Audio and television script writing for commercial and educational uses. Terminology, formats, appeals, timing and pacing stressed. Students will create, organize and develop sample scripts.

COMM 353 INTERVIEWING THEORY AND PRACTICE 3
A study and practice of different interview formats (excluding counseling) as a unique context of communication. Special attention given to interviews for employment, appraisal and information gathering.

COMM 360 PARLIAMENTARY LAW AND POLITICS 3
An introduction to the rules and operation of committees, assemblies and other formal gatherings. with special attention to communication in legislative settings. *Area A*

COMM 384 NONVERBAL COMMUNICATION 3
Investigation of the role of nonverbal communication in human interactions within and between cultures. Discussion of and practice in interpreting individual, social and environmental factors which influence communication outcomes. *On demand.*

COMM 385 SPEECH AND LANGUAGE DEVELOPMENT 3
Factors relating to speech and language acquisition and growth from birth to the preschool-age child; factors relating to disruption of speech and language learning processes; remedial treatment procedures for speech and language disorders in the young child. *Mode 6*

COMM 400 COMMUNICATION THEORY AND PROCESS 3
Prereq.: COMM 301 or 302 or 303. An introduction to prevalent theories of communication. Emphasis will be on human communication processes.

COMM 415 MULTICULTURAL COMMUNICATION PERSPECTIVES AND DIVERSITY 3
Analysis of communication relationships in which cultural values appear to be different and how this influences the mutual process of attempting to achieve a goal. Training in multicultural communication for coordination of action in individual and organizational relationships. *On demand.*

COMM 418 COMMUNICATION IN A REHABILITATION SETTING 3
Focus on interaction as it relates to the development and function of the rehabilitation setting. Students will have an opportunity to develop both analytical and practical skills in rehabilitation communication. *On demand.*

COMM 427 TELEVISION PROGRAMMING AND PRODUCTION 3
Prereq.: COMM 330 or permission of instructor. A study of broadcasting systems. Use of studio television facilities includes investigation of sound, lighting, graphics, production and on-camera presentation. *Spring.*

COMM 428 ADVANCED TV PRODUCTION 3
Prereq.: COMM 427. A technique-centered course which focuses on combining TV studio production with field and remote components for broadcast, cable or corporate applications. *Spring.*

COMM 443 COMMUNICATION AND SOCIAL INFLUENCE 3
Prereq.: COMM 115 or 140. Principles and processes of influencing attitudes, beliefs and behavior. Practical illustrations drawn from advertising, speeches, and other communicative settings. *Spring. Mode 6*

COMM 453 ORGANIZATIONAL COMMUNICATION 3
Prereq.: COMM 310 or permission of instructor. A study of communication theory and processes within organizational contexts.

COMM 454 COMMUNICATION STRATEGIES FOR SOCIAL ACTION AND COMMUNITY DEVELOPMENT 3
Study of the roles of interpersonal communication, telecommunication, traditional media and specialized media. Emphasis on research study, field project, production, campaign, or simulation designed to facilitate change. *[I]*

COMM 480 TELEVISION DOCUMENTARY PRODUCTION 3
Prereq.: COMM 428 or permission of instructor. An analysis of TV documentary style, techniques and processes with opportunity to build upon TV skills learned in previous TV production courses by producing a TV documentary.

COMM 490 INTERNSHIP/INDEPENDENT STUDY 1-6
Prereq.: Permission of a faculty adviser and the department chairperson. Reading and research in approved topics or an intern project under guidance of a member of the Communication Department. *For majors only.*

COMM 492 LEGISLATIVE INTERN EXPERIENCE 3-6
Prereq.: Junior or senior status, permission of faculty and department chairperson. Work in the state legislature. In addition, a series of seminars, assigned readings and completion of a substantial research project related to work in State Legislature are required. To be taken concurrently with COMM 490.

COMM 495 SPECIAL TOPICS IN COMMUNICATION 3
Prereq.: Junior or senior standing or permission of instructor. Study of selected topics in Communication. May be repeated once with a different topic.

COMPUTER SCIENCE

CS 113 INTRODUCTION TO COMPUTERS 3
For the non-Computer Science student who wishes to become acquainted with computers. An investigation of computer impact on many facets of our society, discussion of types of problems solved by computer and an introduction to an appropriate programming language. No credit given to students with credit for CS 151, 213 or MATH 446, 471. *[c] Mode 2*

CS 115 WORKSHOP IN COMPUTER SCIENCE 1-3
Prereq.: ECM 099 or placement test. Topics vary and include application-oriented languages, computer literacy-oriented software packages, and human-computer interface procedures. *[c] Mode 2*

CS 151 INTRODUCTION TO COMPUTER SCIENCE 4
Prereq.: MATH 115 or placement test. This is a first course in Computer Science. The emphasis is on the analysis of classes of problems, the design of algorithms for solving them, and the use of a computer language for implementing them. No credit given to students with credit for MATH 471. *[c] Mode 2*

- CS 152 ADVANCED PROGRAMMING CONCEPTS 4
Prereq.: CS 151 or MATH 471, and MATH 122 or 125. Advanced programming and data structures for Computer Science majors and concentrates. Emphasis on techniques and procedures appropriate to production of reliable and easily modifiable programs. Stacks, queues, lists and tree structures. [c]
- CS 207 INTRODUCTION TO COMPUTER GRAPHICS 3
Prereq.: Art 110, and either ECM 099 or placement test. This course will use the computer facilities to produce abstract designs and images, with special emphasis on color forms, shapes, texture and basic design. *Spring. [c] Mode 2*
- CS 213 APPLICATIONS OF COMPUTER PROGRAMMING 3
Prereq.: MATH 121 or 125 or placement test. This course focuses on the use of programming techniques to solve problems encountered in the areas of mathematics, life science, physical science, engineering, education and social science. Topics include programming, languages with emphasis on FORTRAN and either BASIC or PASCAL, the use of time-shared and batch-oriented computers, and applications of the computer. No credit given to students with credit for CS 151. [c] *Mode 2*
- CS 216 C PROGRAMMING IN THE UNIX ENVIRONMENT 3
Prereq.: CS 151 or 213. An introduction to the C language and the Unix Operating System for experienced programmers. No credit given to CS majors. *Spring. [c]*
- CS 253 DATA AND FILE STRUCTURES 3
Prereq.: CS 152, MATH 218 and MATH 132 or MATH 221. A software design course which develops concepts and techniques for structuring and manipulating data both in the computer and on external storage devices. Topics include a review of basic data structures, balanced tree structure, graphs, sequential and direct access files, external sorting. An introduction to data base systems is also provided. [c]
- CS 254 COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE PROGRAMMING 3
Prereq.: CS 151 or MATH 471. Concepts of assembler language, machine language, macro-instructions, subroutines, program checkout, interrupt structure of assemblers, and use of operating system. No credit given to students with credit for MATH 472. [c]
- CS 290 TOPICS IN COMPUTER SCIENCE 1-3
Prereq.: CS 151 or equivalent, and permission of instructor. This course will provide an opportunity to introduce into the curriculum elementary topics of current interest. May be repeated with different topics for up to 6 credits. [c] *Irregular.*
- CS 300 COMPUTER SCIENCE WORK EXPERIENCE I 3
Prereq.: Permission of Department. Students must go through Co-op office prior to receiving credit. A six-month employment experience relevant to the Computer Science program. No more than 6 credits of other course work may be taken concurrently. [c]
- CS 301 COMPUTER SCIENCE WORK EXPERIENCE II 3
Prereq.: CS 300 and permission of department. Students must have a job which is different from their CS 300 job. Students must go through the Co-op office prior to receiving credit. A six-month employment experience relevant to the Computer Science program. No more than 6 credits of other course work may be taken concurrently. [c]
- CS 354 DIGITAL SYSTEMS DESIGN 3
Prereq.: CS 254 and MATH 218. PHYS 338 must be taken concurrently by those students whose program requires PhYs 338. An introduction to the analysis and design of digital systems in terms of logical and sequential networks. Various minimization techniques are studied. [c]
- CS 355 INTRODUCTION TO SYSTEMS PROGRAMMING 3
Prereq.: CS 253, and 254 or MATH 472. Introduction to the design of systems software. Topics include comparative machine organizations, the design of assemblers and loaders, an introduction to operating systems, and an introduction to compiler design. [c]
- CS 385 STRUCTURED COMPUTER ORGANIZATION 3
Prereq.: CS 354. The architecture of the computer is explored by studying its various levels: physical level, operating-system level, conventional machine level, and higher levels. An introduction to micro-programming and computer networking is provided. *Spring. [c]*
- CS 398 INDEPENDENT STUDY IN COMPUTER SCIENCE 1-3
Prereq.: CS 152 and 254. Special independent work to meet individual interest in areas not covered by regular curriculum. Work will be under the supervision of a faculty member in an area and for an amount of credit agreed upon prior to registration for the course. *On request. [c]*
- CS 407 ADVANCED TOPICS IN COMPUTER SCIENCE 1-3
Prereq.: CS 152 and 254 and permission of instructor. This course provides an opportunity to introduce into the curriculum topics of interest and new courses on an experimental basis. May be repeated with different topics for up to 6 credits. [c]
- CS 410 INTRODUCTION TO SOFTWARE ENGINEERING 3
Prereq.: CS 355. An examination of the software development process from the initial requirement analysis to the operation and maintenance of the final system. The scope of the course includes the organization of software development projects, the verification and validation of systems, the problems of security and privacy, and the legal aspects of software development, including software protection and software liability. *Irregular. [c]*
- CS 420 OBJECT-ORIENTED PROGRAMMING SYSTEMS 3
Prereq.: CS 355. Introduction to the theory, concepts and application of object-oriented programming as implemented in today's computing world. This course will include such topics as objects and messages, classes and inheritances, encapsulation and specification, and will present an overview of the currently popular object-oriented systems. *Irregular. [c]*
- CS 423 COMPUTER GRAPHICS 3
Prereq.: CS 253 or MIS 310. Wire frame and solid graphics in two and three dimensions, data structure for computer graphics, geometrical transformations in computer graphics, raster and vector display device technologies. *Fall. [c]*
- CS 450 OPERATIONS RESEARCH IN COMPUTER SCIENCE 3
Prereq.: CS 152 or 213, and STAT 315 or STAT 104. This course introduces the student to the methods of OR with emphasis on the use of digital computers. Topics covered include scheduling situations, allocation problems, queuing models, inventory models and probability models. *Irregular. [c]*
- CS 460 DATA BASE MANAGEMENT SYSTEMS 3
Prereq.: CS 253. Data base systems are considered from both the designer's and the user's point of view. Physical implementation and data access techniques are studied. *Irregular. [c]*
- CS 462 ARTIFICIAL INTELLIGENCE: THEORY AND PRACTICE 3
Prereq.: CS 355 and PHIL 220 or permission of instructor. Presentation of artificial intelligence as a coherent body of ideas and methods to

acquaint the student with the classic programs in the field and their underlying theory. Students will explore this through problem-solving paradigms, logic and theorem proving, language and image understanding, search and control methods and learning. *Spring. [c]*

CS 463 ALGORITHMS 3

Prereq.: CS 253. Topics include algorithms in combinatorics, integer and real arithmetic, pattern matching, list processing and artificial intelligence. Algorithmic analysis and domain-independent techniques are also considered. *Irregular. [c]*

CS 464 PROGRAMMING LANGUAGES 3

Prereq.: CS 253. Emphasis on programming languages as one of many tools in the software development effort. Comparison of different language usages of data types, information hiding, control structures, block structure, sub-programs, re-entrancy and recursion. *Irregular. [c]*

CS 465 COMPILER DESIGN 3

Prereq.: CS 355. Current techniques of compiler writing. Introduction to formal grammar and parsing techniques is given. Problems of semantic phase are discussed and some solutions are given. Optimization techniques are discussed. *Fall. [c]*

CS 473 SIMULATION TECHNIQUES 3

Prereq.: CS 152 or 213, and STAT 315 or STAT 104. This course introduces the student to the basic principles of simulation methods using digital computers. Topics covered include random number generators, stochastic variate generators, computer models and simulation languages. *Irregular. [c]*

CS 481 OPERATING SYSTEMS DESIGN 3

Prereq.: CS 355. Theory and design of computer operating systems. Topics include machine and interrupt structure, memory, processor, device and information management. *Spring. [c]*

CS 483 THEORY OF COMPUTATION 3

Prereq.: MATH 218 and CS 463. The concept of algorithm, correctness and efficiency of algorithm, decidable vs. undecidable problems, recursion, halting problem, formal languages, context free and context-sensitive grammars, and introduction to automata and parallel algorithms. *Irregular. [c]*

CS 485 MICROPROCESSORS 3

Prereq.: CS 156 and 354. Acquaints students with the basic techniques in the design and use of microprocessor software and hardware. Topics include microprocessors, differences and similarities, instructions, software and hardware components, applications and future uses. *Irregular. [c]*

CS 486 INTRODUCTION TO VLSI 3

Prereq.: CS 385. Introduction to the physics, features and fabrication of Very Large Scale Integrated circuits. Emphasis on VLSI design and applications. Topics include design algorithms, contra-flow and fabrication techniques. *Irregular. [c]*

CS 490 COMPUTER COMMUNICATIONS NETWORKS AND DISTRIBUTED PROCESSING 3

Prereq.: CS 253 and 254. A study of networks of interacting computers. The problems, rationale and possible solution for both distributed processing and distributed data bases will be examined. *Irregular. [c]*

CS 498 SENIOR PROJECT 1-3

Prereq.: CS major, senior standing, 21 credits toward major including one track course. Opportunity for student to participate in design and implementation of large problem with small group of people. Problem will be chosen in consultation with instructor. *[c]*

CS 499 SEMINAR IN COMPUTER SCIENCE 3

Prereq.: CS major. Opportunity for student to explore topics of current interest not covered in normal curriculum. *Irregular. [c]*

COUNSELING

CNSL 229 HUMAN SERVICES IN THE RESIDENCE HALLS 3

Prereq.: Appointment to the staff (Department of Residence Life) and/or permission of instructor. topics include competencies in personal development, student development theory and multi-cultural issues. *Area C*

CRIMINAL JUSTICE

CJ 235 INTRODUCTION TO THE CRIMINAL JUSTICE SYSTEM 3

Introduction to the structure and operation of the criminal justice system in the United States. Attention will be focused on the individual and institutional level. Topics include entrance into the criminal justice system, differential treatment of offenders, and the enforcement, judicial and penal subsystems. *Fall. Mode 6*

CJ 331 CRIMINAL PROCEDURE AND THE COURTS 3

Prereq.: CJ 235. Cannot be used for sociology credit. The organization and function of American courts, trial procedures, pre- and post-trial motions; legal procedures regarding arrest, interrogation, search and seizure, constitutional protections for the accused. *Spring.*

CJ 333 LAW ENFORCEMENT AND SOCIETY 3

Prereq.: CJ 235. A comprehensive examination of the function of law enforcement in society. Emphasis is placed on such areas as police operations, discretion, police-community relations, due process, use of deadly force. and police corruption and deviance. *On demand.*

CJ 338 SOCIOLOGY OF PUNISHMENT 3

Prereq.: SOC 110. Discussion of rationales used historically to justify various punishments and their manifestations in American society today. The purposes and tasks of agents of social control are addressed as well as the organization of prison life. Alternatives to incarceration are evaluated, and the "treatment" model of dealing with convicted offenders is critically analyzed in terms of who benefits. *Spring. (O) Mode 6*

CJ 350 DRUGS AND SOCIETY 3

Selected social issues relating to illegal drug use including international and national drug trafficking, money laundering, drug enforcement, drug-related crimes, prevention strategies, and legalization. *Irregular.*

CJ 435 SUPERVISED FIELD STUDIES IN CRIMINAL JUSTICE 3

Prereq.: CJ 235, 338; PS 232 OR CJ 331; SOC 337, 339; or permission of instructor. Cannot be used for sociology credit. Individual or group projects or internships under faculty direction. Undertaken in an organization or program related to the criminal justice system.

CJ 478 CURRENT TOPICS IN CRIMINAL JUSTICE 3

Prereq.: Permission of instructor. Analysis and evaluation of special topics in the general field of criminal justice. May be repeated with different topics for a maximum of 9 credits. *Irregular.*

DANCE

DAN. 150-158 are Area D courses. They are general activity courses, open to all students.

DAN 150	FOLK AND SQUARE DANCING	1
DAN 151	MODERN DANCE	1
DAN 152	BEGINNING BALLET	1
DAN 153	INTERMEDIATE BALLET	1
DAN 155	DANCERCIZE	1
DAN 156	SLIMNASTICS	1

DAN 157	BEGINNING JAZZ DANCE	1
DAN 158	INTERMEDIATE JAZZ DANCE	1
<i>DAN 275 is an Activity course, open to majors only</i>		
DAN 275	MODERN DANCE & THEORY	1

EARTH SCIENCE

ESCI 110	INTRODUCTION TO THE EARTH	3
A descriptive introduction to the astronomical, geological and meteorological studies of the earth that allow an understanding of the earth as a physical environment. No credit given students with credit in ESCI 111, or to students with 6 credits in Earth Science. <i>Mode 8</i>		
ESCI 111	ELEMENTARY EARTH SCIENCE	3
An introduction to the study of earth science. Selected topics in geology, meteorology and astronomy. Two lecture hours per week and one two-hour laboratory. No credit given to students with credit for ESCI 110. <i>Mode 8</i>		
ESCI 116	LIFE OF THE PAST: FOSSILS	3
Introduction to ancient life. The pageant of life as revealed by fossils over approximately three billion years. For non-science majors. Two lecture hours and one two-hour laboratory per week. <i>Fall. Mode 8</i>		
ESCI 117	INTRODUCTION TO ASTRONOMY: THE SOLAR SYSTEM	3
Prereq.: ECM 099 or equivalent. An introductory course in descriptive astronomy focusing on the solar system, including coordinate systems, the Earth-Moon system, light and telescopes, and the structure of the solar system. No credit will be given to Physics or Earth Science majors or to students with credit for ESCI 178. <i>Mode 8</i>		
ESCI 118	INTRODUCTION TO ASTRONOMY II: STARS AND GALAXIES	3
Prereq.: ECM 099 or equivalent. An introductory course in descriptive astronomy focusing on stars and galaxies, including stellar evolution, galaxies, and the origin and fate of the universe. No credit given to Physics or Earth Science majors or to students with credit for ESCI 179. <i>Mode 8</i>		
ESCI 121	PHYSICAL GEOLOGY	3
Basic principles of development of the earth, earth materials and agents responsible for existing surface features. <i>Mode 8</i>		
ESCI 122	HISTORICAL GEOLOGY	4
Prereq.: ESCI 121. Earth history, emphasizing earth's changing geographic pattern through time, history and development of life, climates of past as revealed by study of stratified rocks of earth's crust. Three lectures and one three-hour laboratory period per week. <i>Spring. Mode 8</i>		
ESCI 123	GEOLOGY LABORATORY	1
Prereq.: ESCI 121 (may be taken concurrently). Laboratory experiences that broaden the understanding of concepts and relationships presented in ESCI 121. One two-hour lab per week. There may be one or more field trips. <i>Fall. Mode 8</i>		
ESCI 129	INTRODUCTION TO METEOROLOGY	4
Prereq.: MATH 101 or placement exam. An introductory course dealing with atmospheric composition, structure and basic motions. The nature of high and low pressure systems, severe weather, how the National Weather Service works. Three lectures and one two-hour laboratory per week. <i>Mode 8</i>		
ESCI 178	PLANETARY ASTRONOMY	4
Prereq.: MATH 115 or equivalent. A study of the members of the solar system, their motions and compositions. Topics will include physical laws of motion and radiation, comparative planetology, the origin		

and structure of the solar system. Three lectures and one two-hour laboratory per week. No credit given to students with credit for ESCI 117. *Fall. Mode 8*

ESCI 179	STELLAR ASTRONOMY	4
Prereq.: MATH 115 or equivalent. A study of stars as separate bodies and members of clusters and galaxies. Topics will include properties of stars, stellar evolution, galaxies and cosmology. Emphasis will be placed on methods astronomers use to study stars. Three lectures and one two-hour laboratory per week. No credit given to students with credit for ESCI 118. <i>Spring. Mode 8</i>		
ESCI 221	EARTH MATERIALS	4
Prereq.: CHEM 121, PHYS 122. The study of the origin, composition and physical properties of the solid constituents of the crust and interior of the earth. Three lectures and one three-hour laboratory per week. <i>Fall. (E)</i>		
ESCI 222	STRUCTURAL GEOLOGY	3
Prereq.: ESCI 121. Crustal structures such as folds, faults and plutons. Two lectures and one three-hour laboratory or field trip per week. <i>Spring. (E)</i>		
ESCI 278	OBSERVATIONAL ASTRONOMY	4
Prereq.: ESCI 178 or 179 and permission of instructor. Theory and practice of observational astronomy. Topics include solar and lunar observation, naked eye observation, and coordinate systems, telescope usage and design, basic astrophotography. Two lectures and two two-hour labs per week. <i>Fall. Mode 8</i>		
ESCI 301	PLANETARIUM INTERNSHIP	2
Prereq.: ESCI 117 pr 118 or 178 or 179. Directed study in the use of the planetarium for astronomy education. The student will prepare and conduct one or more planetarium presentations. <i>On demand.</i>		
ESCI 323	ENGINEERING GEOLOGY	3
Prereq.: MATH 121 or equivalent. Fundamental facts and principles of geology with special reference to their importance in engineering projects, problems of surface and ground water, geologic application of interpretation of topographic and geologic maps, and techniques of remote sensing. Two lectures, one recitation, two lab hours/week. <i>Spring. (E)</i>		
ESCI 330	TOPICS IN ASTROPHYSICS	3
Prereq.: MATH 126, PHYS 122 and ESCI 118 or 179 or permission of instructor. Selected topics in astrophysics on the frontier of current research. Course may be repeated once with different content. <i>Spring. (E)</i>		
ESC I 342	WEATHER ANALYSIS AND FORECASTING I	4
Prereq.: ESCI 129, and MATH 121 or permission of instructor. Basics of analysis and forecasting. National Weather Service codes and interpretation, understanding the weather map, graphical addition and subtraction, analysis of scalar and vector fields, streamlines and isogons, kinematic analysis. Three lecture hours and a two-hour laboratory per week. <i>Fall. (O)</i>		
ESCI 421	THE STRATIGRAPHIC RECORD	4
Prereq.: ESCI 122. Methods of identifying spatial and temporal relationships between fossil assemblages and sedimentary rock types. Three one-hour lectures and one three-hour laboratory period per week. <i>Fall. (O)</i>		
ESCI 424	GEOMORPHOLOGY	3
Prereq.: ESCI 121. Origin and development of land forms in terms of processes of erosion and relation to geologic structure. Three lectures per week. <i>Fall. (O) Mode 8</i>		
ESCI 430	OCEANOGRAPHY	3
Prereq.: BIO 121, CHEM 121, PHYS 121. Introduction to physical properties and chemical composition of sea water, its topography and		

circulation, and relationships to activities of plants and animals. Three lectures per week. Field work by arrangement. *Spring. (O)*

ESCI 442 WEATHER ANALYSIS AND FORECASTING II 4
Prereq.: ESCI 342 and 462. National Weather Service Facsimile Products, applications of thickness and thermal wind equations, thermodynamic diagrams and their usefulness, cross-sectional analysis, tilt of pressure systems, quasi-geostrophic theory, performance characteristics of NWS prediction models. Three lecture hours and a two-hour laboratory per week. *Spring. (E)*

ESCI 450 ENVIRONMENTAL GEOLOGY 3
Prereq.: Permission of instructor. Geological factors that control or affect human habitat and land use potential. Earthquakes, landslides, floods, groundwater seepage, cave collapse and similar processes are briefly discussed. Attention is focused on major landscape changes in urban areas during the last 25 years and on methods of preventing, avoiding or compensating for geological hazards. *Spring. (E) Mode 8*

ESCI 452 INDEPENDENT STUDY IN EARTH SCIENCE 1-4
Prereq.: Approved plan of study of arrangement with supervising instructor and approval of department chairperson. Special work in laboratory, theory or research to meet individual requirements in areas not covered by regular curriculum. May be taken more than one semester up to a limit of 4 credits.

ESCI 461 PHYSICAL METEOROLOGY 3
Prereq.: ESCI 129, PHYS 121 or 125 (may be taken concurrently), or permission of instructor. An examination of the physical basis of the earth's atmosphere. Structure, composition, gas laws, atmospheric thermodynamics and hydrostatics, atmospheric stability, solar radiation and the energy budget of the earth. Three lecture hours per week. *Fall. (E)*

ESCI 462 DYNAMIC METEOROLOGY 3
Prereq.: ESCI 461, MATH 126 or 221 (may be taken concurrently). Continuation of ESCI 461 with emphasis on dynamic processes of the earth's atmosphere. Equations of motion, geostrophic and gradient winds, thickness and thermal wind, circulation and vorticity, mechanism and influences of pressure changes. Three lecture hours per week. *Spring. (O)*

ESCI 465 WEATHER ANALYSIS AND FORECASTING II 4
Prereq.: ESCI 342 and 462. National Weather Service Facsimile Products, applications of thickness and thermal wind equations, thermodynamic diagrams and their usefulness, cross-sectional analysis, tilt of pressure systems, quasi-geostrophic theory, performance characteristics of NWS prediction models. Three lecture hours and a two-hour laboratory per week. *Spring. (E)*

ESCI 490 TOPICS IN EARTH SCIENCE 3
Selected studies in earth science which are not offered presently in the curriculum of the department. Course may be repeated for different topics. No topic may be taken for credit more than once.

ECONOMICS

ECON 200 PRINCIPLES OF ECONOMICS I 3
Macroeconomics. Introduction to the prevailing pattern of American economic institutions, the theory of income, employment and investment in the national economy and public policies that affect them. *Mode 7*

ECON 201 PRINCIPLES OF ECONOMICS II 3
Microeconomics. Presents economic principles related to consumer demand, and determination of prices of goods and factors of production under differing market structures. Applications to real world situations will be discussed. It is recommended that ECON 200 be taken before ECON 201. *Mode 7*

ECON 300 MACROECONOMICS 3
Prereq.: ECON 200, 201. Theoretical analysis of determination of national income and economic growth. *Fall.*

ECON 305 MICROECONOMICS 3
Prereq.: ECON 200, 201. Determination of prices of goods and productive factors in free market economy and role of prices in allocation of resources. *Spring.*

ECON 310 MATHEMATICAL ECONOMICS I 3
Prereq.: ECON 200, 201. MATH 125 or MATH 122, or permission of instructor. Applications in economics of functions, differential calculus, maxima and minima, Lagrange multipliers, matrices and determinants. *Fall.*

ECON 311 MATHEMATICAL ECONOMICS II 3
Prereq.: ECON 310. A continuation of ECON 310. An examination of economic problems in a dynamic framework. The use of integrals, differential equations and difference equations will be discussed as applied to economics. A brief introduction to linear programming and game theory is included.

ECON 398 TOPICS IN ECONOMICS 1
Prereq.: Permission of instructor. An examination of selected topics in economics which are not otherwise offered as part of the department's regular courses. Course may be repeated for different topics for a total of 3 credits.

ECON 420 URBAN ECONOMICS 3
Prereq.: ECON 200, 201. An economic analysis of metropolitan and regional entities with special focus on land use, location decision-making, the provisions and role of public services, transportation, public finance, human resources and social welfare.

ECON 430 INTERNATIONAL ECONOMICS 3
Prereq.: ECON 200, 201. Principles of international trade and finance and application to modern world, theory of comparative advantage, exchange rates, monetary standards, international financial institutions, tariffs, commercial policy and aid to underdeveloped countries.

ECON 433 ECONOMIC DEVELOPMENT OF MODERN CHINA, JAPAN AND KOREA 3
Prereq.: ECON 200. An interdisciplinary analysis of special problems in economic development of China, Japan and Korea, with major attention to history, theory and policies. Actual growth experiences and potentials are compared between the three nations, as well as between East Asia and other parts of the world.

ECON 435 ECONOMIC DEVELOPMENT 3
Prereq.: ECON 200. Problems of accelerating development in underdeveloped countries and maintaining development in prosperous countries. From viewpoints of theory, history and policy, this course attempts to explain forces that lead to economic development. *Mode 7 [I]*

ECON 440 COMPARATIVE ECONOMIC SYSTEMS 3
Prereq.: ECON 200, 201. Analysis of economic systems, both theoretical and actual. Topics include: the economy as a system, classification of economic systems, bases or criteria for comparison of systems, market economics, market socialism and command economies.

ECON 445 LABOR ECONOMICS 3
Prereq.: ECON 200, 201. A thorough economic analysis of human resources as a factor of production. Special attention is devoted to demographics, labor market structures, wage determination, career decision-making, training and the roles of employee organizations.

ECON 450 MONEY, CREDIT AND BANKING 3
Prereq.: ECON 200. Money and its functions, including structure of the American banking system with emphasis on monetary theory and policy. *Mode 7*

- ECON 451 MONETARY THEORY 3
Prereq.: ECON 450. Role of money in economic activity, including examination of Classical, Keynesian and neo-Keynesian theories. Special emphasis will be given to Monetarism and practical problems in controlling the money supply.
- ECON 455 PUBLIC FINANCE 3
Prereq.: ECON 200, 201. Analysis of federal revenues and expenditures, including an examination of federal budget concepts, fiscal policy, cost-effectiveness analysis, tax efficiency and equity, and debt management problems.
- ECON 457 BENEFIT-COST ANALYSIS 3
Prereq.: ECON 200, 201. Analysis of ways of increasing efficiency in government spending through quantification of alternative courses of action. Topics include financial statements, measures of output and effectiveness, and benefit-cost analysis of selected programs.
- ECON 460 ECONOMIC FORECASTING 3
Prereq.: ECON 200, 201 and MATH 104 or equivalent. The theory and use of such forecasting techniques as simple and multiple regression, seasonal adjustment, economic indicators, input-output and macroeconomic models. Emphasis will be given to economic applications and the use of the computer.
- ECON 462 INDUSTRIAL ORGANIZATION 3
Prereq.: ECON 201. The study of the structure, conduct and performance of selected U.S. industries. The effects of concentration on prices, outputs, profits and technological change will be analyzed. *Mode 7*
- ECON 465 GOVERNMENT AND BUSINESS 3
Prereq.: ECON 201. Role of government in the mixed economy with special emphasis on antitrust laws, regulations and de-regulation, social legislation, and public enterprise. *Mode 7*
- ECON 470 MANAGERIAL ECONOMICS 3
Prereq.: ECON 201. Application of economic theory and quantitative methods to managerial decision-making problems. Topics include: decision analysis, forecasting, demand analysis, production and cost analysis, linear programming, break-even analysis, and capital theory and budgeting. *Mode 7*
- ECON 475 HISTORY OF ECONOMIC THOUGHT 3
Prereq.: ECON 200, 201. Evolution of economic thought from Ancient Greece to current doctrines.
- ECON 485 ECONOMETRICS 3
Prereq.: ECON 200, 201 and MATH 104 or equivalent. Application of statistical methods to economics. Emphasis is placed on statistical inference, regression analysis and real-world applications using the computer. *Spring. (O)*
- ECON 493 TOPICS IN ECONOMIC EDUCATION 1-3
Prereq.: For teachers in-service or Education majors. An examination of elected topics in economic education which are not otherwise offered as part of the Department's regular courses. May be repeated for different topics for a total of 6 credits. *Summer.*
- ECON 498 ADVANCED TOPICS IN ECONOMICS 1
Prereq.: ECON 200, 201 or permission of instructor. An examination of advanced selected topics in economics which are not otherwise offered as part of the department's regular courses. Course may be repeated with different topics for a total of 6 credits.
- ECON 499 INDEPENDENT STUDY IN ECONOMICS 3 or 6
Prereq.: Permission of instructor. Students may specialize in projects of an advanced nature not covered by regular course offerings. Supervision is given through periodic conferences with each student and through several group meetings to discuss findings and common problems.

EDUCATION

- ED 403 SUPERVISED TEACHING IN THE HEALTH OCCUPATIONS I 3
Prereq.: VTE 113 or concurrent enrollment; employment (minimum half-time) by a private or public school system or appropriate clinical facility if a component of an approved program. Prescriptive observation of the teaching-learning process, systematic planning and execution of lessons in an educational setting under the supervision of University Health Occupation Education faculty. Emphasis on Connecticut teaching competencies in both classroom and clinical areas.
- ED 404 SUPERVISED TEACHING IN THE HEALTH OCCUPATIONS II 3
Prereq.: ED 403 or 422; employment (minimum half-time) by a private or public school system or appropriate clinical facility if a component of an approved program. An in-depth continuation of ED 403 with emphasis on integrating theory and practice in the classroom and clinical areas. Contact learning will be employed.
- ED 412 PRACTICUM IN TEACHING ENGLISH AS A SECOND LANGUAGE 3
Supervised observation and practice teaching of English to speakers of other languages in elementary or secondary schools.
- ED 422 STUDENT TEACHING FOR HEALTH OCCUPATIONS EDUCATION 10
Prereq.: VTE 400, permission of the coordinator of the Health Occupations Education program. Student teachers teach for 10 weeks under continuous supervision of an experienced instructor in their field of specialization. For those who choose to teach in other professional programs, supervision will be provided by University Health Occupation Education faculty as well as by faculty of cooperating institutions. Applications must be filed by March 15 for fall semester and October 15 for the spring semester. Application forms may be obtained from the coordinator of the Health Occupation Education program. Emphasis on Connecticut teaching competencies in both classroom and clinical areas.

EDUCATION — EARLY CHILDHOOD

NOTE: Admission to the Professional Program is required prior to applying for student teaching.

- EDEC 104 OVERVIEW OF EARLY CHILDHOOD EDUCATION 1
Historical and philosophical approaches to early childhood education including Head Start, Montessori, day care, kindergarten and the primary levels of elementary education.
- EDEC 201 ENHANCING RECEPTIVE AND EXPRESSIVE SKILL DEVELOPMENT IN YOUNG CHILDREN 3
Study of the processes involved in developing avid communicators in early childhood. Relationship of receptive and expressive language arts (listening, speaking, reading, writing) to children's social understanding and competence.
- EDEC 360 EARLY CHILDHOOD EDUCATION: CURRICULUM AND METHODS 4
Prereq.: EDEL 355, admission to the professional program, and declared certification Pre K-Grade 3. Methods for early childhood education. Emphasis on the relationship of the young child's growth and development to appropriate curriculum planning. Includes language arts, mathematics, science, and social studies. Related field experience at the preschool level.
- EDEC 361 EARLY CHILDHOOD EDUCATION: EXPRESSIVE MODES 3
Prereq.: EDEC 360. The integration of play, visual arts, music, movement, and language arts into early childhood curriculum. Planning

and providing for the appropriate teaching strategies and environment. Includes approaches to develop parent understanding.

EDEC 436 IMPACT OF TEACHER BEHAVIOR 3
Prereq.: Admission to the Professional Program. An examination of teacher behaviors, characteristics and interactive styles that develop competence and self-control in children. The effect of teacher behavior on children coping with stressful life situations will be studied.

EDUCATION — ELEMENTARY

NOTE: Admission to the Professional Program is required prior to applying for student teaching.

EDEL 105 OVERVIEW OF MIDDLE SCHOOL EDUCATION 1
Introduction to the education in the Middle School. Examines pre-adolescent youth, their characteristics and educational needs. Designed for students seeking grades 4-8 certification.

EDEL 210 ELEMENTARY TEACHING AS A PROFESSION: ANALYSIS AND REFLECTION 3
Prereq.: Sophomore standing. Introduction to teaching and learning in the elementary school classroom. Issues in elementary education and the organization of schools. Classroom observations and reflections on specific teaching approaches are included. Field experience in required.

EDEL 355 LEARNING THEORIES AND PRINCIPLES OF ELEMENTARY EDUCATION AND THEIR APPLICATION TO THE CLASSROOM 3
Prereq.: PSY 235 and admission to the Professional Program. Understanding of principles pertinent to the process of teaching and learning in the elementary classroom. Emphasizes the use of educational theory and research findings as they apply to classroom practices.

EDEL 356 GENERAL METHODS IN ELEMENTARY EDUCATION 3
Prereq.: EDEL 355 and admission to the Professional Program. Methods of direct instruction and classroom management techniques. Also examines cooperative learning, inquiry-based instruction, unit planning, and individualized instruction. Instructional goals and methods for the social studies curriculum. Field experience required.

EDEL 357 TEACHING METHODS: GRADES FOUR THROUGH EIGHT 3
Prereq.: EDEL 355 and admission to the Professional Program. Methods of teaching including instructional planning, lesson presentation skills, questioning skills, interpersonal communication skills, classroom management and evaluation. Social studies curriculum presented. Field experience required.

EDEL 402 SCHOOL HEALTH 2
Various aspects of the health program in the elementary school are considered. A study is made of the selection and presentation of curriculum materials in health education. Special attention is given to the teaching of the effects of alcohol, tobacco and controlled drugs.

EDEL 411 STUDENT TEACHING: ELEMENTARY 8
Prereq.: Permission of the Department of Teacher Education. During the senior year a period of time is spent working with children in professional activities culminating in the student assuming complete responsibility for planning and executing units of instruction.

EDEL 412 STUDENT TEACHING: ELEMENTARY EDUCATION GRADUATE CERTIFICATION PROGRAM 8
Prereq.: Matriculation in Graduate Certification Program, admission to Professional Program, and permission of the Department of Teacher Education. Experiences with children in professional ac-

tivities culminating in the student assuming complete responsibility for planning and executing units of instruction.

EDEL 498 INDIVIDUAL STUDY PROJECT 2-6
Prereq.: Permission of Department chairperson. Individual research open only to advanced students and experienced teachers. Systematic study of problems of special interest. Students in either elementary or secondary fields are guided in selection analysis, gathering of data and drawing conclusions.

EDUCATION — SECONDARY

NOTE: Admission to the Professional Program is required prior to applying for student teaching.

EDSC 256 LEARNING: ITS SIGNIFICANCE IN SECONDARY EDUCATION 2
Prereq.: PSY 235 or 236. Processes of learning as applied particularly to children in the secondary school.

EDSC 372 PRINCIPLES OF SECONDARY EDUCATION 2
Prereq.: EDSC 256 and admission to the Professional Program. Historical development of secondary education in this country, present functions and objectives, problems of curriculum construction and revision, general methods of directing learning, techniques of classroom management and professional responsibilities of teacher. Normally fused with EDSC 373. (For Sec. Ed. 7-12 certification only.)

EDSC 373 EVALUATION IN THE SECONDARY SCHOOL 2
Prereq.: EDSC 256 and admission to the Professional Program. Appraisal of learning and diagnosis of learning difficulties by teacher-constructed means as well as by standardized evaluation instruments. Normally fused with EDSC 372. (For Sec. Ed. 7-12 certification only.)

EDSC 375 PRINCIPLES AND EVALUATION IN EDUCATION (K-12) 3
Prereq.: PSY 235 and admission to the Professional Program. Orientation to the role of the teacher in elementary and secondary schools. Emphasis upon development and understanding of objectives, curriculum, individual needs and differences, teaching skills, functions of school administration and services, issues of education and professionalism. Field experiences will be offered. (For Art, Music, Technology Ed., and Phys. Ed. K-12; junior or senior years.)

EDSC 413 RESPONSIBLE STUDENT TEACHING (SECONDARY) 10
Prereq.: Admission to the Professional Program. During the senior year, a period of time is spent in classrooms of public secondary schools where the student demonstrates ability to conduct secondary school learning activities and to work effectively with adolescent youth.

EDSC 414 PRELIMINARY STUDENT TEACHING (TECHNOLOGY EDUCATION) 6
See EDSC 415.

EDSC 415 STUDENT TEACHING (TECHNOLOGY EDUCATION) 6
Prereq.: Admission to the Professional Program. In accordance with the public school schedule, Technology Education students spend approximately a 16-week period in the first semester of the senior year in a public secondary school; one period of eight weeks in junior high school and a second period of nine weeks in senior high school, usually in different communities. The Technology Education major demonstrates his or her ability to organize and conduct school learning activities and to work effectively with adolescent youth in a program of technology education. Emphasis on Connecticut teaching competencies in both classroom and laboratory situations.

EDSC 417 STUDENT TEACHING (ELEMENTARY P.E.) 6 or 8
 Prereq.: Admission to the Professional Program. An eight-week period of the senior year is spent in a physical education department of a public elementary school where the student demonstrates the ability to conduct activity classes and to work effectively with children.

EDSC 419 STUDENT TEACHING
 (SECONDARY SCHOOL P.E.) 6 or 8
 Prereq.: Admission to the Professional Program. An eight-week period of the senior year is spent in a physical education department of a public secondary school where the student demonstrates his or her ability to conduct activity classes and to work effectively with youth.

EDSC 420 STUDENT TEACHING —
 MUSIC EDUCATION K-12 12
 Prereq.: Admission to the Professional Program. One-half a semester is spent in the music department of an elementary school, the other half in a secondary school music department. Student demonstrates his or her ability to conduct learning activities in music and to work effectively with children and youth.

EDSC 429 RESPONSIBLE STUDENT TEACHING —
 ART (K -12) 12
 Prereq.: Admission to the Professional Program. Student demonstrates his or her ability to organize and conduct school learning activities and to work effectively with pupils and teachers in a program of art education. *Open only to Art majors.*

EDSC 435 STUDENT TEACHING: SECONDARY 8
 EDUCATION GRADUATE CERTIFICATION PROGRAM
 Prereq.: Matriculation in Graduate Certification Program, admission to Professional Program, and permission of the Department of Teacher Education. Experiences in classrooms of public secondary schools where the student demonstrates ability to conduct secondary school learning activities and to work effectively with adolescent youth.

EDUCATIONAL FOUNDATIONS

EDF 400 PHILOSOPHIES OF EDUCATION 3
 Prereq.: Satisfactory completion of 65 semester hours and admission to the Professional Program. Some major philosophies and their implications for education in the United States.

EDF 401 FOUNDATIONS OF EDUCATION 3
 Prereq.: Satisfactory completion of 65 semester hours and admission to the Professional Program. Aims of modern education are studied with respect to the historical, philosophical, psychological and sociological forces which have shaped the modern school.

EDUCATIONAL LEADERSHIP

ETM 200 INTRODUCTION TO MICROCOMPUTERS 1
 IN EDUCATION
 Introduction to computer usage in schools through operating a micro-computer, using word processing, reviewing exemplary types of educational software, examining and writing lesson plans integrating computer usage. *[c]*

ETM 370 AUDIOVISUAL EDUCATION 3
 Development of basic skills in use of audiovisual equipment for the modern classroom. Development of a rationale for effective and efficient use of instructional material.

ENGINEERING TECHNOLOGY

ET 150 INTRODUCTION TO
 ENGINEERING TECHNOLOGY 3
 Prereq.: MATH 115 (may be taken concurrently), or permission of instructor. Introduction to engineering through the study of calculation techniques. Emphasis on calculator operations, computer coding, design graphics, graphical analysis and design projects. *[c] Area C*

ET 260 COMPUTER AIDED DESIGN AND
 INTEGRATED MANUFACTURING
 CAD/CAM/CIM 3
 Prereq.: TC 121, TC 216, MATH 115. An introduction to the utilization of computer technology for the planning, implementation and control of a manufacturing facility, to create or modify engineering designs or processes in the manufacture of a product. This is a laboratory course utilizing analytical and simulation models on CAD/CAM/CIM systems. *Lecture/Lab. [c]*

ET 300 HUMAN FACTORS ENGINEERING
 (ERGONOMICS) 3
 Prereq.: TC 121, PSY 112. A study of the man/machine relationship necessary to achieve maximum productivity and job satisfaction. Emphasis will be placed on the physical work environment with considerations given to health and safety criteria.

ET 351 APPLIED MECHANICS I — STATICS 3
 Prereq.: MATH 125, ET 150, PHYS 121. The fundamentals of statics, including the resolution and composition of forces, the equilibrium of force systems. The analysis of forces acting on structures and machines, centroids, moments of inertia. Vector methods are used.

ET 352 APPLIED MECHANICS II — DYNAMICS
 AND HYDRAULICS 3
 Prereq.: ET 351. The basic theory and application of engineering technology calculations in the field of dynamics, stress analysis, machine design and hydraulics.

ET 357 STRENGTH OF MATERIALS 3
 Prereq.: ET 351, PHYS 121. The study of simple and combines stress, torsion, flexure and deflection of beams, continuous and restrained beams, combines axial and bending loads, and columns. Computer applications. *[c]*

ET 358 APPLIED THERMODYNAMICS 3
 Prereq.: ET 351 and PHYS 122. Application of heat transfer, thermodynamics and fluid mechanic principles to thermal system design based on engineering fundamentals of conduction, convection and radiation heat transfer properties. *Spring.*

ET 360 COMPUTER AIDED PLANNING (CAP) 3
 Prereq.: TC 113, IT 360. Application of the computer to production problems and decision-making process in inventory control scheduling, aggregate parts processing, production control, work force utilization, plant layout, forecasting, line balancing and process planning. *[c]*

ET 367 MACHINE DESIGN 3
 Prereq.: ET 352 and TC 121. Fundamentals of design with respect to linkages, moving machinery parts and tooling. Emphasis placed on design concepts, use of manuals and engineering data and function. *Fall. [c]*

ET 397 STRUCTURAL ANALYSIS 3
 Prereq.: ET 357. Analysis of statically determined structures; influence lines, deflection analysis of trusses, beams and frames; introduction to indeterminate structural analysis using consistent deformation principles and moment distribution; computer applications. *[c]*

ET 440 GEOMETRIC DIMENSIONING AND TOLERANCING 3
 Intended for all technical personnel involved in originating or interpreting state-of-the-art industrial engineering drawings. Emphasis will be on the interpretation, application and verification of all aspects of Geometric Dimensioning and Tolerancing per the latest ANSI Y14.5 specification including the concept of true positioning, runout, data, maximum material condition and functional gaging.

ET 451 SOIL MECHANICS AND FOUNDATIONS 3
 Prereq.: ET 357. Fundamentals of soil behavior and its use as a construction material. Principles of effective strength, permeability, shear strength and consolidation. Application to construction problems in shallow and deep foundations, slope stability, retaining structures and excavation drainage. Lecture/lab.

ET 454 TRANSPORTATION/LAND 3
 Prereq.: TC 353. Study of the planning, design, environmental concerns addressing, construction and maintenance of transportation projects using new and rehabilitated highway and bridge projects as focus points for lecture and laboratory work. Lecture/lab. *Area C*

ET 456 MATERIALS ANALYSIS 3
 Prereq.: TC 118 or permission of the instructor. The study of the composition, properties and characteristics of metallic and non-metallic manufacturing materials, including: the nature and structure of materials, phase diagrams, mechanical properties and the effects of environment on materials. Emphasis will be placed on the principles behind the selection of materials to meet design requirements. Laboratory includes the use of standard materials and testing apparatus. Lecture/lab. *Area C*

ET 457 ADVANCED SURVEYING 3
 Prereq.: TC 353, MATH 125. Advanced topics in surveying including horizontal and vertical curve layout, traversing earthwork and laser leveling. Computer applications in electronic distance measurement and total station development. Lecture/Lab. [c]

ET 460 COMPUTER AIDED DESIGN AND MANUFACTURING (CAD/CAM) 3
 Prereq.: TC 113, 121, 216, IT 360. Advanced utilization of computer technology for the planning, implementation and the control of a manufacturing facility; to create or modify engineering designs or process in the production of the product. The course is laboratory-oriented with analytical and simulation models on the computer. Lecture/Lab. [c]

ET 461 MANUFACTURING WITH PLASTICS AND COMPOSITES 3
 Prereq.: CHEM 121, PHYS 121, MATH 115. An analytical study of the nature of materials and the correlated manufacturing techniques used in the plastics and composite industry. Emphasis will be placed on the processes involving thermoplastic, thermoset and composite materials. Lecture/lab.

ET 462 MANUFACTURING PROCESS PLANNING AND ESTIMATING 3
 Prereq.: TC 121, 316, ET 440. The fundamentals of design and planning of the production, operational sequence and cost estimates for discrete part manufacturing. The analysis of part design for the development of process plans, routings and operations sheets for process engineering, estimating and costing procedures of manufacturing operations. [c]

ET 466 DESIGN FOR MANUFACTURE 3
 Prereq.: ET 260, 440, 462, TC 446 (taken concurrently). This applications and problem solving course covers contemporary industrial practices for integrating product design with manufacturing process design to produce products which will function in accordance with design intent, have interchangeable parts and allow economical automated manufacture.

ET 469 CAD/CAE SOLID MECHANICS 3
 Prereq.: ET 351, and 260 or TC 321. Analysis of stress and strain in machinery and mechanisms. Computer-aided design of surface and solid geometric models and computer analysis of engineering/mechanical properties of solids. Two lecture hours/two lab hours. *Spring. [c]*

ET 470 STRUCTURAL STEEL DESIGN 3
 Prereq.: TC 255, ET 397 —An introduction to the analysis of steel structures using classical and computer methods. Application of design, fabrication and construction in structural steel using standard specifications. Topics on beams, columns, trusses and frames.

ET 471 REINFORCED CONCRETE STRUCTURES 3
 Prereq.: ET 357, 397. Applications of design and construction in reinforced concrete and timber structures. Topics on beams, columns, slabs, footings, retaining walls, form work and prestressed concrete fundamentals.

ET 472 TIMBER STRUCTURES 3
 Prereq.: ET 397. A study of the physical properties of wood used in structures and architecture. Influence on strength from moisture content, species and preservation treatments are emphasized. Design and construction applications in bridges and buildings.

ET 476 ENVIRONMENTAL TECHNOLOGY 3
 Prereq.: CHEM 111 or CHEM 121, MATH 115. Environmental effects on air, water and land from construction activities. Case studies with discussion of corrective action.

ET 497 ENGINEERING COST ANALYSIS 3
 Prereq.: MATH 125, senior standing. Technical and engineering aspects of financing the construction of infrastructure facilities, determination of costs and justification of improvements. [c] *Mode 7 and Area C.*

ET 498 ENGINEERING TECHNOLOGY SENIOR PROJECT (CAPSTONE) 3
 Prereq.: Senior ET majors only. An analysis of the professional activities and responsibilities of engineering technologists. Student involvement through visits to organizations and discussion with engineers/technologists, field trips and technical/engineering projects. Sections are held for specializations with faculty and/or professionals to discuss, analyze and report on aspects of engineering activities.

ENGLISH

*Sophomore standing recommended

ENG. 108 ESL WRITING I 3
 Intermediate to advanced writing in English for students whose native language is not English. Transition to academic writing. Grammar review. *Area A*

ENG 109 ESL WRITING II 3
 Advanced writing in English for students whose native language is not English. Academic writing. *Area A*

ENG 110 FRESHMAN COMPOSITION 3
 An introductory course in expository writing designed to develop the student's ability to write clearly, logically and effectively. Emphasis on the composing process, organization, coherence, sentence and paragraph structure and usage. An acceptable Central Connecticut State English Placement Test score or an appropriate equivalent is required for ENG 110. See skills testing and remediation policy, page 22. Open only to first-year students and sophomores. Students who have not completed their ENG 110 requirement prior to achieving 61 credits are required to take ENG 202 instead. *Area A*

ENG 111	INTRODUCTION TO LITERATURE	3	ENG 261	INTRODUCTION TO FICTION	3
	Study of fiction, drama and poetry. Not recommended for English majors. No credit t given to students with credit for either ENG 260 or 261 or 262. <i>Irregular. Mode 3</i>			A close analysis of the elements, structure and technique of short stories and novels. No credit t given to students with credit for ENG 111. <i>Mode 3</i>	
NOTE: ENG 110 OR AN EQUIVALENT IS A PREREQUISITE FOR ALL OTHER ENGLISH COURSES.					
*ENG 200	INTRODUCTION TO LINGUISTICS	3	ENG 262	INTRODUCTION TO DRAMA	3
	The structure and system of language with English as the subject of analysis: history, phonology, morphology, syntax, semantics, usage. <i>Mode 6</i>			A close analysis of plays, representing major and minor genres of drama (tragedy, comedy, tragi-comedy, melodrama, farce, etc.), relationship of genre, structure and statement. No credit t given to students with credit for ENG 111. <i>Mode 3 [I]</i>	
*ENG 202	INTERMEDIATE COMPOSITION	3	ENG 270	DRAMATIC ENACTMENT	3
	Prereq.: ENG 110 or junior standing. An intermediate course in expository writing designed to expand the student's writing skills. Emphasis on academic and career-oriented writing in the student's major field or area of interest, including research skills and papers, professional reports and résumés. <i>Area A</i>			Introduction to the theory and applications of creative drama as an interpretive tool and a response to literature. <i>Spring. (E)</i>	
*ENG 205	BRITISH LITERATURE I	3	ENG 274	STORYTELLING	3
	Major British writers from the beginnings through the 18th century. <i>Not a prerequisite for ENG 206. Mode 3</i>			Study of the history, art and technique of storytelling. Discussion of the skills involved in order to develop the student's competency in this oral tradition. Designed to enable the student to build a personal repertoire of stories for performance. <i>Spring. (O)</i>	
*ENG 206	BRITISH LITERATURE II	3	ENG 288	STUDIES IN LITERATURE	3
	Major British writers from the late 18th century to the present. <i>ENG 205 is not a prerequisite. Mode 3 [I]</i>			Selected topics to be announced each semester. Students may not take this course under the same topic more than once. <i>Irregular. Mode 3</i>	
*ENG 210	AMERICAN LITERATURE I	3	NOTE: FOR 300- AND 400-LEVEL COURSES LISTED BELOW: JUNIOR STANDING IS RECOMMENDED FOR 300-LEVEL COURSES; JUNIOR OR SENIOR STANDING IS REQUIRED FOR 400-LEVEL COURSES. IN ADDITION, PERMISSION OF THE INSTRUCTOR IS RECOMMENDED FOR NON-ENGLISH MAJORS.		
	American literature from the Colonial Period to the Civil War. <i>Not a prerequisite for ENG 211. Mode 3</i>		ENG 300	LANGUAGE ACQUISITION	3
*ENG 211	AMERICAN LITERATURE II	3		A study of how we acquire our first language; child language, regional and social dialect, register, style, and idiolect. <i>Fall. Mode 6</i>	
	American literature from the Civil War to the present. <i>ENG 210 is not a prerequisite. Mode 3</i>		ENG 332	MEDIEVAL ENGLISH LITERATURE	3
*ENG 220	SHAKESPEARE	3		Old English and Middle English literature, exclusive of Chaucer, from the eighth through the 14th centuries. Most materials read in translation. <i>Fall. Mode 3</i>	
	Selected tragedies, comedies and history plays. <i>Mode 3</i>		ENG 333	THE ENGLISH RENAISSANCE	3
ENG 230	THE STUDY OF LANGUAGE	3		Emphasis on British poetry and prose of the 16th and early 17th centuries, including such writers as More, Erasmus, Sidney, Spenser, Marlowe, Shakespeare and Jonson. <i>Spring. Mode 3</i>	
	General concepts of language as it evolved in thought, society, literature and scientific analysis with emphasis on universal characteristics and relevance to contemporary English. <i>Mode 6</i>		ENG 334	SEVENTEENTH-CENTURY POETRY AND PROSE	3
*ENG 235	JOURNALISM I	3		British poetry and prose of the earlier 17th century, including Donne, Herbert, Marvell, Bacon, Burton and Browne. <i>Fall. Mode 3</i>	
	A survey of the fundamentals of news and feature reporting. Covers basic newsroom practices, ethics and responsibilities of the journalist, news-gathering techniques, the different kinds of stories, and editing and make-up. <i>Area A</i>		ENG 335	RESTORATION AND EIGHTEENTH-CENTURY LITERATURE	3
*ENG 236	JOURNALISM II	3		British poetry, prose and drama from 1660 to 1798, including such writers as Dryden, Congreve, Addison, Swift, Pope, Fielding, Gay, Johnson, Goldsmith and Sheridan. <i>Spring. Mode 3</i>	
	Prereq.: ENG 235 or permission of instructor. This course builds on ENG 235, but places more emphasis on actual news-gathering and the challenges of writing the story. <i>Spring. Area A</i>		ENG 336	THE ROMANTIC AGE	3
*ENG 240	HERITAGE OF WESTERN LITERATURE I	3		British Literature from Blake to 1832, including Wordsworth, Coleridge, Byron, Shelley and Keats. <i>Fall. Mode 3 [I]</i>	
	Significant works in the Western literary tradition, from Homer to Dante. <i>Mode 3</i>		ENG 337	THE VICTORIAN AGE	3
*ENG 241	HERITAGE OF WESTERN LITERATURE II	3		Poetry and non-fiction prose from 1832 to 1900, including poetry of Tennyson, Browning and Arnold and prose of Carlyle, Mill, Newman and Ruskin. <i>Spring. Mode 3 [I]</i>	
	Continuation of ENG 240 from Renaissance through 19th century, including such writers as Montaigne, Cervantes, Molière, Swift, Goethe and Dostoyevsky. <i>Mode 3 [I]</i>		ENG 339	MODERN BRITISH LITERATURE	3
*ENG 250	CONTEMPORARY LITERATURE	3		Prose and poetry from 1900 to the present, including such writers as Hopkins, Sitwell, Eliot, Yeats, Joyce, Woolf, Forster, Auden, MacNiece, Spender, Graves, Thomas, Orwell. <i>Fall. Mode 3 [I]</i>	
	Modern fiction, plays and poetry in relation to modern life. <i>Mode 3</i>				
ENG 260	INTRODUCTION TO POETRY	3			
	A close analysis of poetry: prosody, diction, figurative language, structure, tone and theme. Selection read from entire range of English and American poetry. No credit t given to students with credit for ENG 111. <i>Mode 3</i>				

ENG 340	EARLY AMERICAN LITERATURE	3	Early writers of the country through approximately the first third of the 19th century, with emphasis on the ideological and social influences which shaped their art. <i>Fall. Mode 3</i>
ENG 341	THE AMERICAN RENAISSANCE	3	Prose and poetry of American romantic authors in the 19th century. Special emphasis on Poe, Hawthorne, Melville, Thoreau, Emerson, Whitman; contemporary ideologies. <i>Mode 3</i>
ENG 342	AMERICAN REALISM AND NATURALISM	3	Study of the period after the Civil War to about 1915, including such writers as Dickinson, Twain, James, Wharton, Crane and Dreiser. <i>Spring. Mode 3</i>
ENG 343	MODERN AMERICAN LITERATURE	3	Major American writers in the period between World War I and World War II; the ideological and social influences which shaped their art. <i>Mode 3</i>
ENG 360	THE BIBLE AS LITERATURE: OLD TESTAMENT	3	Major books of O.T. important to literature, their literary qualities and their historical and cultural backgrounds. <i>Fall. (E) Mode 3</i>
ENG 361	THE BIBLE AS LITERATURE: NEW TESTAMENT	3	Major books of N.T. important to literature, their literary qualities and their historical and cultural backgrounds. Part of Apocrypha. <i>Spring. (E) Mode 3</i>
ENG 362	GREEK AND ROMAN LITERATURE	3	Such major Greek and Roman writers as Homer, the Greek dramatists, Plato, Thucydides, Lucretius and Virgil. <i>Irregular. Mode 3</i>
ENG 365	THE MODERN EUROPEAN NOVEL	3	Representative works by such writers as Flaubert, Tolstoy, Dostoyevsky, Proust, Kafka and Camus. <i>Irregular. Mode 3 [I]</i>
ENG 371	CREATIVE WRITING	3	Writing of short fiction. <i>Fall. Area A</i>
ENG 372	CREATIVE WRITING	3	Writing of short fiction. <i>Spring. Area A</i>
ENG 373	CREATIVE WRITING	3	Writing of poetry. <i>Fall. Area A</i>
ENG 374	CREATIVE WRITING	3	Writing of poetry. <i>Spring. Area A</i>
ENG 376	CREATIVE WRITING	3	Writing the familiar essay. Primarily a writing course, but also an introduction to the familiar essay as a form in the tradition of Montaigne—Hazlitt, Lamb, E. V. Lucas, E. B. White and Thoreau. <i>Area A</i>
ENG 377	CREATIVE WRITING	3	Study and practice of playwriting. With permission of instructor, may be repeated for a maximum of 6 credits. <i>Irregular. Area A</i>
ENG 378	CREATIVE WRITING	3	Prereq.: ENG 110 or permission of instructor. Specific creative writing genres taught on a rotating basis. May be repeated with different topics for a maximum of 6 credits. <i>Area A.</i>
ENG 380	FEATURE WRITING	3	Prereq.: ENG 235 or 236 or permission of instructor. Writing and analysis of human interest articles; exploration of the newspaper and magazine markets. <i>Fall. (E) Area A</i>
ENG 381	EDITORIAL WRITING	3	Prereq.: ENG 235 or 236 or permission of instructor. The study, evaluation and writing of newspaper opinion pieces. <i>Fall. (O) Area A</i>
ENG 386	THE LANGUAGE OF FILM	3	A development of visual terminology analogous to literary terminology in order better to understand the intentions of the author of the film. The qualities of picture, movement and editing are discussed in an effort to develop critical interpretation and judgment. Attendance at film screenings required. Of ENG 386 and 486, only one may be used to satisfy major or concentration requirements. <i>Fall. Mode 4</i>
ENG 400	ANALYTICAL SKILLS IN LANGUAGE	3	Intensive analyses (syntactic, morphological, phonological) of selected data from English and other languages. Particular emphasis on developing analytical skills. <i>Spring. Mode 6</i>
ENG 401	ADVANCED COMPOSITION	3	An advanced course in expository writing designed for competent writers who wish to refine their skills. Emphasis on vividness, precision and impact, with attention to audience and style. <i>Area A</i>
ENG 403	TECHNICAL WRITING	3	A course designed to assist students in planning, researching, structuring, writing, revising and editing technical materials. Emphasis on various types of writing drawn from an industrial/professional context: reports, correspondence, directories, manuals, technical articles. <i>Area A</i>
ENG 412	EDITING	3	Prereq.: ENG 235 or 236 or permission of instructor. Emphasis on copy editing, headline writing, news judgment, photo handling, newspaper makeup. <i>Fall.</i>
ENG 416	MAGAZINE WRITING	3	Prereq.: ENG 235 or 236 or permission of instructor. The process of researching, interviewing for, and writing magazine articles; preparation for selling freelance articles. <i>Spring. Area A</i>
ENG 418	STUDIES IN JOURNALISM	3	Prereq.: ENG 235 or 236 or permission of instructor. Selected topics in journalism. Students may take this course under different topics for a maximum of 6 credits. <i>Irregular. Area A</i>
ENG 420	TEACHING ENGLISH IN SECONDARY SCHOOLS	3	Prereq.: Acceptance into the Professional Program in English. Methods and materials for teaching English language and literature. <i>Fall.</i>
ENG 421	TRADITIONAL GRAMMAR	1	Prereq.: ENG 110, and permission of instructor or concurrent enrollment in ENG 420. Study of rules concerning grammar, usage, punctuation and mechanics as traditionally presented in school texts. Analysis of those rules in relation to linguistics and writing. <i>Fall.</i>
ENG 430	STUDIES IN LINGUISTICS AND THE ENGLISH LANGUAGE	3	Selected topics in linguistics. Students may take this course under different topics for a maximum of 6 credits. <i>Mode 6</i>
ENG 431	THE HISTORY OF THE ENGLISH LANGUAGE	3	History, growth and structure of the English language. <i>Spring. Mode 6</i>
ENG 441	HAWTHORNE, MELVILLE AND JAMES	3	Study of the problem of evil in 19th-century American literature. The course seeks to define the problem, to trace its courses in the Puritan tradition and to consider solutions proposed in the fiction of Hawthorne, Melville and Henry James. <i>Fall. Mode 3</i>

- ENG 445 AMERICAN DRAMA 3
Development of American drama and its contribution to literature.
Spring. Mode 3
- ENG 448 STUDIES IN AMERICAN LITERATURE 3
Selected topics in American literature. Students may take this course under different topics for a maximum of 6 credits. *Mode 3*
- ENG 450 CHAUCER 3
Readings in Chaucer, with special emphasis on *The Canterbury Tales* and *Troilus and Criseyde*. *Mode 3*
- ENG 451 MILTON 3
Readings in Milton's prose and poetry with emphasis upon *Paradise Lost* and *Samson Agonistes*. *Mode 3*
- ENG 458 STUDIES IN BRITISH LITERATURE 3
Selected topics in British literature. Students may take this course under different topics for a maximum of 6 credits. *Mode 3*
- ENG 461 SHAKESPEARE: MAJOR COMEDIES 3
Close analysis of major comedies and pertinent critical problems.
Spring. Mode 3
- ENG 462 SHAKESPEARE: MAJOR TRAGEDIES 3
Close analysis of major tragedies and pertinent critical problems.
Fall. Mode 3
- ENG 463 ELIZABETHAN AND JACOBEAN DRAMA 3
Major dramatists from Kyd to Ford, excluding Shakespeare. *Spring. Mode 3*
- ENG 464 RESTORATION AND 18TH CENTURY DRAMA 3
English drama from 1660 to 1800, primarily comedy. Readings from the works of such dramatists as Wycherly, Etherege, Dryden, Congreve, Vanbrugh, Farquhar, Gay and Sheridan. *Fall. Mode 3*
- ENG 470 THE VICTORIAN NOVEL 4
Representative Victorian novelists with special emphasis on Trollope, Eliot, Dickens, Thackeray and Hardy. *Spring. Mode 3 [I]*
- ENG 474 THE CONTEMPORARY AMERICAN NOVEL 3
American novels which have come to prominence since World War II and the changing cultural environment which they reflect. *Mode 3*
- ENG 475 THE BRITISH NOVEL TO 1832 3
Form and content of the novel with readings selected from DeFoe, Richardson, Fielding, Sterne, Smollett, Austen, Scott and Gothic novels.
Spring. Mode 3
- ENG 476 THE MODERN BRITISH NOVEL 3
Form and content of the novel with readings selected from Joyce, Woolf, Ford, Conrad, Lawrence, Huxley, Forster, Greene, Waugh and others. *Fall. Mode 3 [I]*
- ENG 477 MODERN BRITISH POETRY 3
Major works of Hardy, Hopkins, Yeats, D.H. Lawrence, Owens, Sassoon, Auden, Dylan Thomas, Larkin, Hughes, others. *Spring. Mode 3 [I]*
- ENG 478 MODERN AMERICAN POETRY 3
The study of important American poets from Dickinson to the present. *Fall. Mode 3*
- ENG 480 MODERN IRISH LITERATURE 3
Study of the major themes and traditions in Irish writers of the 20th century. Included will be works by Yeats, Joyce, Synge, O'Casey, O'Connor and others. *Fall. Mode 3 [I]*
- ENG 486 LITERATURE AND FILM 3
A study of films adapted from novels and plays, the course investigates the nature of the relationship of these forms. Attention will be paid to the theory of film with comparison to the aesthetics of the printed word and the live performance. Attendance at screenings required. Of ENG 386 and 486, only one may be used to satisfy major or concentration requirements. *Spring. Mode 3*
- ENG 488 STUDIES IN WORLD LITERATURE 3
Selected topics in world literature. Students may take this course under different topics for a maximum of 6 credits. *Mode 3*
- ENG 490 INDIVIDUAL GUIDED READING 1-3
Prereq.: Permission of chairperson. A conference course for English majors in their senior year who have a GPA of at least 3.00 or better and who wish to follow a planned program of guided reading.
- ENG 491 CHILDREN'S LITERATURE 3
Balanced selection of the best literature available to children. Traditional forms of fables, legends, myths, epics, fairy tales, and folk tales of the world; examination of how these represent the universal needs and aspirations of all cultures. Major authors and illustrators included. Not available for graduate credit. *Spring.*
- ENG 492 LITERATURE FOR YOUNG ADULTS 3
Through extensive reading this course examines trends and issues, forms and content, and authors and topics of contemporary books read by and written expressly for adolescents. Recommended for secondary teachers and reading specialists.
- ENG 495 INTERNSHIP 1-6
Intern projects under the guidance of an English faculty adviser or the department chairperson. This course can help fulfill requirements for concentrations in writing, journalism, TESOL and descriptive linguistics. It cannot be used to help fulfill requirements for an English major or concentration.
- ENG 496 TESOL METHODS 3
Principles, methods and materials for teaching English to non-English speaking students at all levels. Acquisition and practice of basic language teaching skills. Intercultural communication. Preparation of classroom tests. *Fall.*
- ENG 497 SECOND LANGUAGE ACQUISITION 3
Major theories of language acquisition and their potential application to language learning. The theoretical bases of second language instruction. *Spring.*
- ENG 498 TESOL PRACTICUM 3
Prereq.: ENG 496. Students will teach ESOL under appropriate supervision in the Intensive English Language Institute. *Fall.*
- ## ENTREPRENEURSHIP
- Enrollment in 300- and 400-level Business courses requires admission to the School of Business or permission of the Assistant to the Dean.
- ENT 205 INTRODUCTION TO ENTREPRENEURSHIP 3
Focuses on the formation of new ventures and value creation. Explores how to identify and evaluate opportunities. Provides an understanding of the basic business skills needed to finance, market and manage those new enterprises. *Open only to non-Business majors. Business majors cannot receive credit for this course. Area C*
- ENT 301 ENTREPRENEURSHIP AND NEW VENTURE CREATION 3
Prereq.: AC 202. Focuses on how businesses are started. Includes recognizing opportunities and risks, gathering resources to convert opportunities into businesses. Develops the skills to evaluate and formulate a business plan. *Open only to Business majors.*

ENT 305 FINANCING ENTREPRENEURIAL VENTURES 3

Prereq.: ENT 301 and FIN 300. Combines the analysis and evaluation of methods used to fund entrepreneurial ventures with the creation of a business plan for a new enterprise. *Spring.*

ENT 320 MANAGING A GROWING BUSINESS 3

Prereq.: ENT 301 and FIN 300. Focuses on management decisions in resource allocation, human resource management, marketing policies and control mechanisms that contribute to growth and value creation in business. Case studies and exercises concentrate on opportunities and problems unique to growing firms.

ENT 410 ENTREPRENEURSHIP AND FAMILY BUSINESS 3

Prereq.: ENT 301 and FIN 300. Examines the challenges and opportunities that are characteristic of family-owned businesses. Includes intra-family relationships, causes and resolutions of conflict, problems of succession, marital status and legal questions. *On demand.*

ENT 499 FIELD STUDIES IN ENTREPRENEURSHIP 3

Prereq.: ENT 305 and ENT 320, and senior standing. Provides students with a working knowledge of actual firms by working closely with individual entrepreneurs to develop business plans. Student teams will work closely with local enterprises.

FINANCE

Enrollment in 300- and 400-level Business courses requires admission to the School of Business or permission of the Assistant to the Dean.

FIN 210 PERSONAL FINANCIAL PLANNING AND INVESTING 3

Overview of the personal financial planning process. Examines personal incomes and budgets, home and consumer durable purchases, insurance of personal assets, personal investing, and retirement planning. *Open only to non-Business majors. Business majors cannot receive credit for this course. Summer. Area C*

FIN 300 MANAGERIAL FINANCE 3

A basic course in business finance. Topics include the environment of financial management, the analysis of financial statements for planning and control, corporate securities and financing the short- and long-term requirements of the firm. *[c]*

FIN 301 INTERMEDIATE MANAGERIAL FINANCE 3

Prereq.: FIN 300. Designed to develop a fundamental understanding of the following major topics in Finance: The capital investment decision, capital structure and dividend policy, managing fund sources, working capital management, international financial management and corporate restructuring. *[c]*

FIN 310 PRINCIPLES OF INVESTMENTS 3

Prereq.: FIN 300. A study of investment, securities, sources of investment information, the securities markets, and elements of analysis. Attention is directed to the investment of funds by individual and institutional investors. *[c]*

FIN 320 FINANCIAL MARKETS AND INSTITUTIONS 3

Prereq.: FIN 300. A study of the operation of financing intermediaries. Topics include deposits, loans, internal operations, domestic and international banking. *[c]*

FIN 400 ADVANCED MANAGERIAL FINANCE 3

Prereq.: FIN 301, 310 and 320. An advanced course in financial management of the business firm. Utilizes a case study approach to stress the application of financial management theories. Topics include asset management, investment decisions and financial structure of the firm. *[c]*

FIN 410 SECURITIES ANALYSIS 3

Prereq.: FIN 301, 310 and 320. An advanced course in investments with emphasis on security analysis and portfolio management practices. Topics include financial statement analysis, interpretation of ratios used in evaluation of various classifications of securities and special techniques employed in forecasting, timing and the development of investment strategies. *[c]*

FIN 420 BANK MANAGEMENT 3

Prereq.: FIN 301, 310 and 320. An in-depth examination of bank management issues including deposit account funding costs and stability, creditworthiness determination, loan pricing, loan portfolio management, interest rate risk management, liquidity management, foreign exchange management, and strategic planning. *Fall.*

FIN 421 INSURANCE 3

Prereq.: FIN 301, 310 and 320. Nature and organization of insurers, analysis of insurance contracts, types of insurance products, introduction to actuarial and underwriting processes, insurer portfolio management, and insurer profitability. *[c]*

FIN 430 INTERNATIONAL FINANCIAL MANAGEMENT 3

Prereq.: FIN 300. A study of the principles and practices of corporate finance in an international setting. Explores the primary elements of international monetary economics with emphasis on balance of payments and exchange rate analysis. Major topics of study include exchange and credit risks in international trade, capital budgeting process of the multi-national corporation and the international financial markets with emphasis on Eurocurrency markets. *[c] [I]*

FIN 490 INDEPENDENT STUDY IN FINANCE 1-3

Prereq.: FIN 301, 310 and 320. Individualized readings and/or research by individual under the direction of a Finance faculty member. Topics will vary. May be repeated up to a total of 3 credits. *On demand. [c]*

FIN 498 FINANCE SEMINAR 3

Prereq.: FIN 301, 320 and 320. The course will expose students to the latest developments in the field of finance. Heavy emphasis will be placed on current advanced books and literature in relevant journals. The course content will vary from semester to semester.

FINE ARTS

FA 490 INTEGRATING THE FINE ARTS FOR THE YOUNG LEARNER 3

Study of the aesthetic experience, its importance for children and its interrelationship with empirical knowledge. Music, the visual arts and movement will be investigated, with an emphasis on discovering resources and developing techniques for integrating each. *Summer. Mode 4*

FRENCH

FR 111 ELEMENTARY FRENCH I 3

The foundations of the French sound system and structure are established through an aural-oral approach. Not open to students with one year of high school study. *Area B [I]*

FR 112 ELEMENTARY FRENCH II 3

Prereq.: FR 111 or equivalent. Continuing the presentation of the elements of French language structure. Dictation and aural comprehension are stressed as well as conversation. No credit will be given to students with previous credit for more advanced course work in French except by permission of the department chairperson. *Area B [I]*

FR 114	BASIC FRENCH REVIEW	3	
	Prereq.: Two years of French in high school or equivalent preparation. Refresher course in the structure patterns and the sound system of the French language. The course does not apply toward the major or minor requirement in French. <i>Area B [I]</i>		
FR 125	INTERMEDIATE FRENCH I	3	
	Prereq.: One year of college French or equivalent. French language structure is reviewed. Short stories and plays. Conversation and composition based on topics of general interest. No credit will be given to students with previous credit for more advanced course work in French except by permission of the department chairperson. <i>Area B [I]</i>		
FR 126	INTERMEDIATE FRENCH II	3	
	Prereq.: FR 125 or equivalent. Continuation of French 125. No credit will be given to students with previous credit for more advanced coursework in French except by permission of the department chairperson. <i>Area B [I]</i>		
FR 225	FRENCH COMPOSITION AND DICTION I	3	
	Prereq.: FR 126 or instructor's permission. A course to train students in self expression by means of frequent compositions in French, in addition to systematic drills in pronunciation and intonation. <i>Area B [I]</i>		
FR 226	FRENCH STRUCTURE AND IDIOM	3	
	Prereq.: FR 225 or equivalent preparation. A course designed to develop correct idiomatic usage and fluency of expression. <i>Spring. Area B [I]</i>		
FR 305	LITERARY MASTERPIECES SINCE 1800	3	
	Prereq.: FR 226 (may be taken concurrently). Introduction to major works in French literature since 1800. <i>Spring. Mode 3 [I]</i>		
FR 315	FRENCH CIVILIZATION TO 1789	3	
	Prereq.: FR 226 (may be taken concurrently). The cultural development of France to 1789.		
FR 316	FRENCH CIVILIZATION FROM 1789 TO THE PRESENT	3	
	Prereq.: FR 226 (may be taken concurrently). Cultural development of France from 1789 to the present. <i>[I]</i>		
FR 335	FRENCH COMPOSITION AND DICTION II	3	
	Prereq.: FR 226. Additional practice in written and oral expression. <i>Fall. [I]</i>		
FR 336	ADVANCED STRUCTURE AND IDIOM	3	
	Prereq.: FR 335. Additional practice in idiomatic usage and verbal fluency. <i>Spring. [I]</i>		
FR 360	LITERARY MASTERPIECES TO 1800	3	
	Prereq.: FR 305 or instructor's permission. Introduction to great works of French literature from the Middle Ages to 1800. <i>Fall. Mode 3 [I]</i>		
FR 389	19TH CENTURY FRENCH LITERATURE	3	
	Prereq.: FR 305 or instructor's permission. Development of various literary genres from Romanticism to Symbolism. <i>Fall. (E) [I]</i>		
FR 410	BUSINESS FRENCH I	3	
	Prereq.: FR 335 or 336 or equivalent. Development of the oral and written skills needed for bilingual work situations encountered in business firms, travel bureaus and government agencies; study of the cultural attitudes of French business people. <i>Fall. [I]</i>		
FR 411	BUSINESS FRENCH II	3	
	Prereq.: FR 335 OR 336 or permission of instructor. Additional practice in the oral and written skills needed for bilingual work situations; emphasis on commercial translation and interpretation of France as a Common Market country. <i>Spring. [I]</i>		
FR 435	FRENCH PHONETICS AND DICTION	3	
	Prereq.: Permission of instructor. Phonetic theory and practice designed to help students improve all aspects of oral expression. <i>Spring. [I]</i>		
FR 441	ADVANCED ORAL PRACTICE I	3	
	Prereq.: Permission of instructor. Development of fluency in oral self-expression. Speech analysis to improve pronunciation and intonation. <i>Fall. [I]</i>		
FR 442	ADVANCED ORAL PRACTICE II	3	
	Prereq.: FR 441 or permission of instructor. Continuation of French 441. <i>On request. [I]</i>		
FR 451	THE STRUCTURE OF MODERN FRENCH	3	
	Prereq.: Permission of instructor. Scientific analysis of the French language, phonetic theory, description of morphological systems and syntactic analysis. Application of these principles to the writing of structural drills and practice therein. <i>Fall. (E) [I]</i>		
FR 460	ADVANCED GRAMMAR AND COMPOSITION	3	
	Prereq.: FR 336 or equivalent. Written expression of French, particularly in idiomatic free composition, designed to establish an appreciation for French style and to develop the ability to express shades of meaning. <i>Fall. [I]</i>		
FR 465	LITERARY ANALYSIS	3	
	Prereq.: FR 305, 335 and 360, or equivalent preparation. Instruction in the techniques of "explication de texte" and of various approaches to literary analysis as an instrument for the development of critical reading ability, and as a necessary step in literary research. <i>Fall. [I]</i>		
FR 471	20TH CENTURY FRENCH LITERATURE I	3	
	Prereq.: Permission of instructor. Literature and the arts in a world of complex and ever-changing values, from the century's surrealist beginnings to Existentialism. <i>Fall. (O) [I]</i>		
FR 472	20TH CENTURY FRENCH LITERATURE II	3	
	Prereq.: Permission of instructor. Literature and the arts from Existentialism to the present focus on the mass media and other innovations. <i>Spring. (E) [I]</i>		
GEOGRAPHY			
GEOG 100	SEARCH IN GEOGRAPHY	3	
	Introduction to processes and value systems in geography. Theme and title may vary from section to section. <i>Spring. Mode 7</i>		
GEOG 110	INTRODUCTION TO GEOGRAPHY	3	
	Basic patterns of physical environment and relationship of human patterns to them are explained. <i>Mode 7</i>		
GEOG 120	WORLD REGIONAL GEOGRAPHY	3	
	Survey of the lands, people and places in the world's major culture regions. Reliance on case studies, investigations of development problems, or other approaches to develop concepts. <i>Mode 7 [I]</i>		
GEOG 220	HUMAN GEOGRAPHY	3	
	A survey of the world's people and their culture. Topics studied may include population, religion, language, settlement, architecture, land tenure, ideologies, social problems, behavior, resource utilization and environmental change. <i>Mode 7 [I]</i>		
GEOG 241	INTRODUCTION TO PLANNING	3	
	Introduction to the principles and practice of planning at various spatial scales — regional, metropolitan, urban and neighborhood. <i>Mode 7</i>		
GEOG 244	ECONOMIC GEOGRAPHY	3	
	Spatial and ecological aspects of the economic development of world regions, resource and population balance, international trade issues, and geopolitics of the post Cold War era. <i>Mode 7 [I]</i>		

- GEOG 256 MAPS AND MAP READING 3
Conferences and practical exercises in the use and interpretation of a variety of map types. Emphasis on the topographic map. Map sources will be discussed. *Mode 7*
- GEOG 266 AIR PHOTO INTERPRETATION 3
Conferences and practical exercises in uses and interpretation of aerial photographs. *Spring*.
- GEOG 272 PHYSICAL GEOGRAPHY 3
Prereq.: GEOG 110 or permission of instructor. Analysis of the landforms at the earth's surface, their distribution, genesis and relationships to the other natural phenomena. *Spring. Mode 7*
- GEOG 274 ELEMENTARY CLIMATOLOGY 3
Prereq.: GEOG 110 or permission of instructor. Analysis of the climates of the continents with emphasis on the dynamic elements of wind systems, air mass interactions and resulting synoptic patterns associated with seasonal progression. *Fall. Mode 7*
- GEOG 275 SOILS AND VEGETATION 3
An analysis of major soil groups and vegetation zones and their relationship to other geographic factors, including land use and rural or urban planning. Field experiences are part of this course. *Mode 7*
- GEOG 276 ELEMENTARY CARTOGRAPHY 3
Instruction and practice in the fundamentals of map construction, design, symbolization and reproduction; emphasis on the use of cartographic drafting instruments, mediums and materials.
- GEOG 290 GEOGRAPHY OF TOURISM 3 X
Physical and cultural factors affecting the locations and relative importance of recreational areas and tourist attractions, both foreign and domestic. Spatial analysis of tourist flows, modes of transportation, effects on regional economies and impacts on environments. *Fall. Mode 7 [I]*
- GEOG 330 UNITED STATES AND CANADA 3
The environmental, cultural and economic patterns that give character to the different parts of the United States and Canada. Analysis of the internal structure and functions of cities such as New York and Los Angeles and regional planning in problem areas such as Appalachia, Alaska and Southern California. *Spring. Mode 7*
- GEOG 378 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS 3
Prereq.: GEOG 256 or 276 or permission of instructor. Introduction to the use of geographic information systems for mapping and planning. Concentration on raster software with an introduction to vector systems. One lecture and one lab per week. *Spring. [c]*
- GEOG 420 INTERNSHIP IN PLANNING 3
Prereq.: Permission of the department chairperson. Restricted to students who are pursuing a specialization in planning. Participants will serve as interns in a municipal, regional, state or private planning agency under the supervision of a geography faculty member. Additional work required for graduate credit. *On demand.*
- GEOG 425 INTERNSHIP IN INTERNATIONAL HOSPITALITY STUDIES 3 X
Prereq.: Permission of the department chairperson. Semester or six months work in an environment directly related to studies in international hospitality and tourism, under the on-site supervision by an affiliate faculty member from a liaison institution. Substantial pre-trip orientation and post-trip reports required. *On demand. [I]*
- GEOG 430 INTERNSHIP IN GEOGRAPHY 3 X
Prereq.: Permission of the department chairperson. No credit given to students with credit for GEOG 420. Students will work in an environment directly related to the track or planned program they are following, under the supervision of a geography faculty member. Written reports are required. Additional work required for graduate credit. *On demand.*
- GEOG 433 ISSUES IN ENVIRONMENTAL PROTECTION 3
Issues in the environmental protection planning process. Topics may include air quality, noise, solid waste, hazardous materials, wilderness areas, endangered species, wetlands and land use issues. A single field trip may be required. *Mode 7*
- GEOG 434 MEXICO, CENTRAL AMERICA AND THE CARIBBEAN 3
A study of our nearest neighbors south of the border, concentrating on people, the land on which they live and related problems, primarily from a regional point of view. *Spring. (E) Mode 7 [I]*
- GEOG 435 JAPAN AND KOREA 3
A study of the physical framework, resources, economic activities and characteristic landscapes of Japan and Korea. Activities of the people of Japan and Korea in relation to their environment and resources, and the differing problems of development facing both nations. *Spring (O). Mode 7 [I]*
- GEOG 436 SOUTH AMERICA 3
A survey of the countries of South America with emphasis on people, places and problems. *Spring. (O) Mode 7 [I]*
- GEOG 437 CHINA 3
Physical, economic, political and historical geography of China. Special consideration of her population, resources, agricultural growth and industrial expansion. Discussion of the geographic bases and the expansion of the Chinese State and the contemporary foundation of Chinese national power. *Fall. (E) Mode 7 [I]*
- GEOG 439 URBAN GEOGRAPHY 3
Form, function and evolution of urban settlements with reference to attributes of place. Emphasis is also placed on internal structure and regional relationships of cities. Provides a methodological basis for thought involving the planning process, including preservation planning and systems analysis. Personal on-site study of a current urban problem within the state is expected. *Fall. (O) Mode 7*
- GEOG 440 RURAL LAND USE PLANNING 3
Land use patterns and the planning process in agriculture, transportation, recreation, industry, population and settlement in rural areas. Case studies and field work emphasizing the impact of urbanization on rural Connecticut. *Fall. Mode 7*
- GEOG 441 COMMUNITY AND REGIONAL PLANNING 3
Philosophies, theories and principles involved in planning of regions and urban areas. *Spring. Mode 7*
- GEOG 442 FIELD METHODS IN GEOGRAPHY 3
Prereq.: 3 credits in Geography or permission of instructor. Design and execution of field research in physical and human geography. Techniques include field notes, sketching, area sampling, planetable mapping, questionnaire design and administration, design of coding forms. soil and vegetation surveying. Both team and individual field research projects. *Fall. (E) Mode 7*
- GEOG 443 TRANSPORTATION PLANNING 3
Investigation of the spatial problems of transportation in metropolitan areas and the various planning solutions available. Consideration of both the role of public policy in transportation planning and techniques of transportation planning. Examples chosen from a number of metropolitan areas with special attention to the Hartford region. *Spring. (O) Mode 7*

GEOG 444 LOCATIONAL ANALYSIS 3
Prereq.: STAT 215. Basic theories and quantitative methodologies for locational analysis. *Spring (O). Mode 7*

GEOG 446 SUB-SAHARAN AFRICA 3
Relationships between physical environment and human development in Africa south of the Sahara. *Spring (E). Mode 7 [I]*

GEOG 448 RUSSIA AND NEIGHBORING REGIONS 3
Environmental, cultural and economic patterns that give character to the various regions of Russia. Its contemporary political economy viewed in spatial and historical context. Examination of Russia's relationship with Central Asia, East Asia, Eastern Europe and the EC. *Fall (O). Mode 7*

GEOG 450 TOURISM PLANNING 3 X
Prereq.: GEOG 290 or permission of instructor. Integrated and sustainable development approach to tourism planning explored through lectures, seminars and case studies at the national, regional and community levels. Focus on public and private initiatives in tourism planning. *Spring. Mode 7*

GEOG 452 EUROPEAN COMMUNITY 3
The environmental, cultural, and economic patterns that give character to the different countries, regions and cities of the European community. Analysis of spatial changes associated with European integration. *Spring. Mode 7 [I]*

GEOG 454 GEOGRAPHY OF TOURISM MARKETING 3 X
Prereq.: GEOG 290 and MKT 303 or permission of instructor. Examination of geographic elements and issues within the tourism industry with a focus on how these influence the spatial aspects of tourist behavior and industry development strategies. *Spring (O). Mode 7*

GEOG 459 FIELD STUDIES IN REGIONAL GEOGRAPHY 2-6
Prereq.: Permission of instructor. On-site group studies in regional geography. This course normally involves travel within the United States or travel outside the country. Only 3 credits may be applied to General Education requirements. *Winter and Summer. Mode 7*

GEOG 469 READINGS IN GEOGRAPHY 3
Prereq.: Permission of instructor. Directed independent studies in geography. May be taken more than once for credit. *On demand.*

GEOG 474 APPLIED CLIMATOLOGY 3
Prereq.: GEOG 110 or permission of instructor. Studies in applied climatology, urban climates, microclimates, evapotranspiration and weather anomalies. Directed field research in these areas. *Spring. (E)*

GEOG 476 COMPUTER CARTOGRAPHY 3
Prereq.: GEOG 256 or 276 or permission of instructor. Use of statistical packages to process data for cartographic purposes. Familiarization with major computer mapping programs. "Hands on" experiences emphasized. No knowledge of computer programming required. *Fall. [c]*

GEOG 478 GIS DESIGN AND IMPLEMENTATION 3
Prereq.: GEOG 378 or permission of instructor. Advanced study of geographic information systems and applications. Students will prepare a proposal to develop GIS for a municipality or non-profit organization. Portions of the database will be implemented. Concentration on vector software. *Fall. [c]*

GEOG 490 CONNECTICUT 3
Explanation and analysis of man's occupancy of Connecticut, employing the concept of areal differentiation, the methodology of historical geography, field investigation and directed individual research. *Fall. (O) Mode 7*

GERMAN

GER 111 ELEMENTARY GERMAN I 3
Functional approach to grammar. Facility in understanding spoken German and in reading is developed. *Not open to students with one year of high school study. Area B [I]*

GER 112 ELEMENTARY GERMAN II 3
Prereq.: GER 111 or equivalent. Presentation of elements of German grammar is completed. Further practice in conversation; writing and speaking based on collateral reading. No credit will be given to students with previous credit for more advanced coursework in German except by permission of the department chairperson. *Area B [I]*

GER 125 INTERMEDIATE GERMAN I 3
Prereq.: One year of college German or equivalent. Grammar review, conversation and composition based on popular German readings including some one-act plays. No credit will be given to students with previous credit for more advanced coursework in German except by permission of the department chairperson. *Fall. Area B [I]*

GER 126 INTERMEDIATE GERMAN II 3
Prereq.: GER 125 or equivalent. Continuation of German 125. No credit will be given to students with previous credit for more advanced coursework in German except by permission of the department chairperson. *Spring. Area B [I]*

GER 225 GERMAN COMPOSITION AND DICTION 3
Prereq.: GER 126 or instructor's permission. Course to train students in self-expression by means of frequent composition in German, in addition to systematic drills in pronunciation and intonation. *Fall. Area B [I]*

GER 226 GERMAN STRUCTURE AND IDIOM 3
Prereq.: GER 225 or instructor's permission. Course designed to develop idiomatic usage and fluency of expression. *Spring. Area B [I]*

GER 305 LITERARY MASTERPIECES SINCE 1800 3
Prereq.: GER 226 (may be taken concurrently). Introduction to major works of German literature since 1800. *Spring. Mode 3 [I]*

GER 315 GERMAN CIVILIZATION TO 1800 3
Prereq.: GER 226 (may be taken concurrently). Cultural development of Germany from its beginnings to 1800. *Fall.*

GER 316 GERMAN CIVILIZATION FROM 1800 TO THE PRESENT 3
Prereq.: GER 226 (may be taken concurrently). Cultural development of Germany from 1800 to the present. *Spring. [I]*

GER 335 ADVANCED COMPOSITION AND DICTION 3
Prereq.: GER 226. Additional practice in written and oral expression. *Fall. [I]*

GER 336 ADVANCED STRUCTURE AND IDIOM 3
Prereq.: GER 335. Additional practice in idiomatic usage and verbal fluency. *Spring. [I]*

GER 360 LITERARY MASTERPIECES TO 1800 3
Prereq.: GER 225 or 226 (may be taken concurrently). Introduction to major works in German literature from its beginning to 1800. *Fall. Mode 3 [I]*

GER 379 19TH CENTURY GERMAN LITERATURE 3
Prereq.: GER 305 or equivalent. Literature of Romanticism, Realism and Naturalism. *Spring. (O) [I]*

GER 380 20TH CENTURY GERMAN LITERATURE 3
Prereq.: GER 305 or equivalent. Literature of Impressionism, Expressionism, *Neue Sachlichkeit* and other modern movements. *Fall. (E) [I]*

GER 385 THE SOUND AND STRUCTURE OF GERMAN 3
Prereq.: Permission of instructor. An intensive and systematic study of the grammatical and phonetic structures of the German language for the advanced student. *On request. [I]*

GER 410 BUSINESS GERMAN I 3
Prereq.: Permission of instructor. Development of the oral and written skills needed for bilingual work in the fields of business, tourism, science, technology, law enforcement, social service and international relations. *Fall. [I]*

GREEK

GRK 111 ELEMENTARY ANCIENT GREEK I 3
Introduction to ancient Greek with an emphasis upon grammar, vocabulary, and the development of reading comprehension. Study of the language accompanied by discussion of the history, literature and culture of Athens in the fifth century B.C. *Fall. Area B*

GRK 112 ELEMENTARY ANCIENT GREEK II 3
Prereq.: GRK 111. Continuation of GRK 111. *Spring. Area B*

HISTORY

HIST 100 SEARCH IN HISTORY 3
Introduction to intellectual processes and value systems in history. Titles and themes may vary from section to section. No credit for students who have received credit for HIST 101. *Mode 5*

HIST 121 WORLD CIVILIZATION I 3
World civilization to the 17th century. No credit for students who have received credit for HIST 131 or 142. *Mode 5*

HIST 122 WORLD CIVILIZATION II 3
World civilization from the 17th century. No credit for students who have received credit for HIST 142 or 143. *Mode 5 [I]*

HIST 142 WESTERN CIVILIZATION I 3
Ancient, medieval and early modern contributions to the development of contemporary thought and institutions through the 17th century. No credit for students who have received credit for HIST 121 or 131. *Mode 5*

HIST 143 WESTERN CIVILIZATION II 3
Western civilization from the 17th century to the present. No credit for students who have received credit for HIST 122. *Mode 5 [I]*

HIST 231 ANCIENT CIVILIZATION 3
Cultures of ancient Middle East and Mediterranean. *Fall. Mode 5*

HIST 232 MEDIEVAL CIVILIZATION 3
European history and institutions from the fall of Rome to 1300. *Spring. Mode 5*

HIST 261 HISTORY OF AMERICAN LIFE I 3
Political, economic, social and cultural development to 1865. *Mode 5*

HIST 262 HISTORY OF AMERICAN LIFE II 3
Political, economic, social and cultural development since 1865. *Mode 5*

HIST 341 ENGLISH HISTORY TO 1715 3
Forces contributing to the growth of English civilization and development of Great Britain. *Fall. Mode 5*

HIST 342 ENGLISH HISTORY SINCE 1715 3
Continuation of HIST 341. *Spring. Mode 5 [I]*

HIST 344 HISTORY OF MODERN GERMANY 3
German history from 1871 to the present. *Fall. (O) Mode 5 [I]*

HIST 346 HISTORY OF FRANCE: 1789 TO PRESENT 3
French history since the Great Revolution. *Spring. (E) Mode 5 [I]*

HIST 347 HISTORY OF RUSSIA I 3
History of Russia from the ninth century to 1861. *Fall. Mode 5 [I]*

HIST 348 HISTORY OF RUSSIA II 3
History of Russia from 1861 to the present. *Mode 5 [I]*

HIST 350 HISTORY OF POLAND 3
The emergence of the Polish Lithuanian Commonwealth, the partitions and the struggle for national survival, and the Polish Question during World War I. *Fall. (O) Mode 5 [I]*

HIST 351 EAST ASIA TO 1800 3
Political, cultural, economic and social history of East Asian countries. *Fall. Mode 5*

HIST 352 EAST ASIA SINCE 1800 3
Continuation of HIST 351 with additional emphasis on contemporary foreign and colonial politics related to the Far East. *Spring. Mode 5 [I]*

HIST 355 HISTORY OF THE HAPSBURG EMPIRE 1815-1918 3
Political analysis of 19th century Austria with special emphasis on multinational character of the Empire. *Fall. (E) Mode 5 [I]*

HIST 356 HISTORY OF EAST CENTRAL EUROPE SINCE 1919 3
Social and political institutions of the Successor states in the Danubian area from 1919. *Spring. (O) Mode 5 [I]*

HIST 360 HISTORY OF CONNECTICUT 3
History of Connecticut. *Spring. Mode 5*

HIST 361 THE WEST IN UNITED STATES HISTORY 3
Westward movement and its significance in American history. *Fall. Mode 5*

HIST 369 AFRICAN-AMERICAN HISTORY 3
Survey of African-American life from the slave trade through the 1970s. *Fall. (E) Mode 5*

HIST 370 HISTORY OF SPORT IN THE UNITED STATES 3
The history and development of organized sport and recreational activity in the United States from colonial times to the present. *Spring. Mode 5*

HIST 375 HISTORY OF AFRICA TO 1800 3
An examination of economic, social and political developments in Africa to the end of the 18th century. *Spring. Mode 5*

HIST 376 HISTORY OF AFRICA SINCE 1800 3
An examination of economic, social and political developments in Africa from the end of the 18th century to the present. *Spring. Mode 5*

HIST 377 HISTORY OF CHRISTIANITY I 3
Christianity from its origins to 1450 A.D. Jewish origins, literature, central doctrines and institutional development. Consideration of its influence on secular life and institutions. *Fall. (O) Mode 5*

HIST 378 HISTORY OF CHRISTIANITY II 3
Christianity from 1450 A.D. to present. Continuation of Christianity I. *Spring. (O) Mode 5*

HIST 381	LATIN AMERICAN HISTORY TO 1823	3	HIST 445	EUROPEAN INTELLECTUAL HISTORY, 1750-1870	3
	Social, economic, political and cultural development of Latin American countries to 1823. <i>Fall. (O) Mode 5</i>			Main currents of European thought and culture from 1750 to 1870. <i>Fall. (E) Mode 5 [I]</i>	
HIST 382	LATIN AMERICAN HISTORY SINCE 1823	3	HIST 446	EUROPEAN INTELLECTUAL HISTORY, 1870-PRESENT	3
	Social, economic, political and cultural development of Latin American countries since 1823. <i>Spring. (O) Mode 5 [I]</i>			Main currents of European thought and culture from 1870 to the present. <i>Spring. (E) Mode 5 [I]</i>	
HIST 423	COLONIAL PERIOD OF AMERICAN HISTORY	3	HIST 453	HISTORY OF MODERN CHINA	3
	Prereq.: HIST 261 or permission of instructor. Development of America to 1763. <i>Fall. Mode 5</i>			China during the late Ch'ing, Republican and Communist periods. <i>Fall. Mode 5 [I]</i>	
HIST 424	ESTABLISHMENT OF A NEW NATION	3	HIST 454	HISTORY OF MODERN JAPAN	3
	Prereq.: HIST 261 or permission of instructor. Establishment of the United States of America from 1763 to 1800. <i>Spring. Mode 5</i>			Japan during the 19th and 20th centuries. <i>Spring. Mode 5 [I]</i>	
HIST 425	ERA OF NATIONAL DEVELOPMENT	3	HIST 463	CONSTITUTIONAL HISTORY OF THE UNITED STATES TO 1900	3
	United States from 1800 to 1850. <i>Fall. Mode 5</i>			Nation's fundamental law as influenced by political, economic and social forces. <i>Fall. (E) Mode 5</i>	
HIST 426	THE UNITED STATES, 1850-1896	3	HIST 464	CONSTITUTIONAL HISTORY OF THE UNITED STATES SINCE 1900	3
	The US from the Compromise of 1850 to <i>Plessy v. Ferguson</i> (1896): Civil War, Reconstruction and the shift of public concern to problems of industrialization, urbanization and immigration. <i>Spring. Mode 5</i>			Continuation of History 463. <i>Spring. (E) Mode 5</i>	
HIST 427	THE UNITED STATES, 1890-1933	3	HIST 465	ECONOMIC HISTORY OF THE UNITED STATES	3
	Industrial growth, immigration, political reform, the Great Depression and the rise of the United States as a world power. <i>Fall. Mode 5</i>			American economy from its agricultural beginnings through stages of its commercial, industrial and financial growth. <i>Mode 5</i>	
HIST 428	THE UNITED STATES SINCE 1933	3	HIST 466	HISTORY OF AMERICAN TECHNOLOGY	3
	Major political, social, economic, cultural and diplomatic developments since 1933. <i>Spring. Mode 5</i>			The history and development of technology in America, emphasizing sources of technology, its impact on the workplace, on the reorganization of production and management, and on change on the larger society. <i>Fall. Mode 5</i>	
HIST 430	ECONOMIC HISTORY OF EUROPE	3	HIST 467	SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES I	3
	Emphasis on economic and industrial development of the period since the Industrial Revolution. <i>Fall. Mode 5 [I]</i>			Cultural, social, religious and intellectual life of American people from Colonial times to the middle of the 19th century. <i>Fall. (O) Mode 5</i>	
HIST 433	HISTORY OF ANCIENT GREECE	3	HIST 468	SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES II	3
	Greek institutions from the Mycenaean period to the accession of Constantine. <i>Spring. Mode 5</i>			Cultural, social, religious and intellectual life of American people from the middle of the 19th century to present. <i>Spring. (O) Mode 5</i>	
HIST 434	HISTORY OF ANCIENT ROME	3	HIST 469	AFRICAN -AMERICANS IN THE TWENTIETH CENTURY	3
	Roman institutions from the regal period to the reign of Constantine. <i>Spring. Mode 5</i>			Political, economic, social and cultural developments in Black America since 1900. <i>Fall. (O) Mode 5</i>	
HIST 435	HISTORY OF EARLY MEDIEVAL EUROPE	3	HIST 472	MODERN MIDDLE EAST	3
	The late Roman empire to the 11th century. <i>Spring. (E) Mode 5</i>			Political, economic, social and cultural developments in Moslem and other countries in Southwestern Asia and Northern Africa since 1800. <i>Fall. Mode 5 [I]</i>	
HIST 436	HISTORY OF LATER MEDIEVAL EUROPE	3	HIST 473	HISTORY OF JUDAISM	3
	The Crusades to the Great Schism. <i>Spring. (O) Mode 5</i>			Historical development of Judaism from Abraham to the present. <i>Spring. (O) Mode 5</i>	
HIST 439	EUROPEAN DIPLOMATIC HISTORY SINCE 1870	3	HIST 474	HISTORY OF THE ARAB-ISRAELI CONFLICT	3
	Theory and practice in modern European diplomatic history. <i>Spring. (O) Mode 5 [I]</i>			History of the Arab-Israeli conflict from the time of Israel's creation as a modern nation-state until the present. <i>Fall. Mode 5</i>	
HIST 441	RENAISSANCE AND REFORMATION	3	HIST 480	MODERN POLAND	3
	History of Europe during the Age of Transition and the Era of the Religious Wars, 1300-1648. <i>Fall. (E) Mode 5</i>			An examination of the course of modern Polish history, including the restoration of independence in 1918, World War II, communist rule, Solidarity, and the recovery of sovereignty in 1989. <i>Fall. (E) Mode 5</i>	
HIST 442	EUROPEAN HISTORY, 1650 TO 1815	3			
	Social, economic, political and cultural forces of the period in relation to formation of modern society and government. <i>Spring. (E) Mode 5</i>				
HIST 443	EUROPEAN HISTORY, 1815-1918	3			
	Political, economic and social institutions in relation to rise of liberalism, nationalism, socialism and imperialism. <i>Fall. Mode 5 [I]</i>				
HIST 444	EUROPEAN HISTORY, 1918 TO PRESENT	3			
	National and international problems of European states. <i>Spring. Mode 5 [I]</i>				

- HIST 483 HISTORY OF INTER-AMERICAN RELATIONS 3
Inter-American relations from inception to the Monroe Doctrine to the present. *Fall. (E) Mode 5 [I]*
- HIST 484 HISTORY OF MEXICO 3
Mexico from high culture of the Mayans through conquest, colonial period, independence and national development. *Spring. (E) Mode 5 [I]*
- HIST 485 HISTORY OF AMERICAN FOREIGN POLICY TO 1920 3
American foreign affairs as influenced by trade expansion, security and morality. *Fall. (O) Mode 5*
- HIST 486 HISTORY OF AMERICAN FOREIGN POLICY SINCE 1920 3
American foreign policy as influenced by America's rise to world power and her international commitment. *Spring. (O) Mode 5*
- HIST 488 AMERICAN BUSINESS HISTORY 3
A historical examination of the forms and strategies employed by business in modern America. *Spring. (O) Mode 5*
- HIST 489 AMERICAN LABOR HISTORY 3
A historical examination of the response of American Labor to technological change and the development of a formal, institutionalized labor movement. *Spring. (E) Mode 5*
- HIST 493 DIRECTED READINGS IN HISTORY 3 or 6
Prereq.: Senior or graduate standing and approval of instructor. Individual program of studies for students with special interests and abilities. Topics to vary from semester to semester. Not more than 3 credits to be taken in one semester. *On demand.*
- HIST 495 HISTORIOGRAPHY 3
European and American historical writing and philosophies of history. *Spring.*
- HIST 497 TOPICS IN HISTORY 3
A historical focus on a facet of history in order to help clarify current domestic and/or world developments. May be repeated with different topics for up to 6 credits. *Summer. Mode 5*

HUMAN SERVICES (Police Work)

- HS 205 POLICE WORK I 3
Applied basic course which will provide a survey and introduction to crime and police work.
- HS 206 POLICE WORK II 3
Prereq.: HS 205 or permission of instructor. An introduction to the practicalities of Connecticut Criminal Law.

HUMANITIES

- HUM 100 SEARCH IN THE HUMANITIES 3
An introduction to the intellectual processes and value systems in the humanities. Titles and themes may vary from section to section. *Mode 3*
- HUM 150 TOPICS IN EUROPEAN LITERATURE 3
A literary figure, movement or theme in European literature studied in translation. Topic may vary from semester to semester. *Mode 3*

- HUM 290 STUDIES IN MODERN CIVILIZATION 3-6
Insights in the culture of people of other lands as reflected in the arts, national traditions, institutions and values. Area or topic may vary from semester to semester. *On demand. [I]*
- HUM 490 THE CULTURE AND CIVILIZATION OF OTHER LANDS 3
An approach to better understanding of other peoples' life and culture as reflected in their language, music, literature, art and folklore. The area covered may vary from section to section. Offered in English. May be repeated with different topics. *Irregular. [I]*
- HUM 494 FOREIGN STUDY THROUGH TRAVEL 3 or 6
Course aims to acquaint students with the civilizations of other countries through supervised travel abroad. Attention to the special needs and interests of participants. *On request. [I]*

INDUSTRIAL EDUCATION

Courses suitable as electives for all Education and Counseling majors and, where indicated, to satisfy Area C, General Education requirements.

- IE 440 INDUSTRIAL EDUCATION IN THE URBAN SCHOOL 3
An opportunity offered to students to examine Technology Education activities applicable to urban youth. Emphasis is on learning about needs of urban youth and relating Technology Education activities to those needs. Consideration of supervisor — employee relations, training opportunities and skill applications in the home.
- IE 460 CONSTRUCTIVE ACTIVITIES FOR NON-TECHNICAL TEACHERS 3
To provide in-service or pre-service personnel with the techniques and skills necessary to use basic tools and materials to enhance their teaching. Emphasis will be placed on "hands-on" experiences with tools and materials, and experiences with group activities relating to industry, technology, careers and occupations. Not open for credit to majors in the School of Technology. *Lecture/lab. Area C*
- IE 470 OCCUPATIONAL EDUCATION PROGRAMS AND THE STUDENT WITH SPECIAL NEEDS 3
Prereq.: SPED 470 or TE 395, or permission of instructor. For Technology Education, business and office, home economics and other occupational education subject instructors. Emphasis on vocational legislation, interagency collaboration, modifications, informal vocational assessment, learning styles, transition and appropriate teaching strategies for special needs students.

INDUSTRIAL TECHNOLOGY

- IT 150 CONSTRUCTION PRACTICES AND PRINCIPLES 3
Introduces basic body of knowledge of construction, including job identification, terminology and the use of equipment as used in light and heavy construction. *Area C*
- IT 155 ENVIRONMENTAL CONTROL SYSTEMS 3
Introduction to environmental control systems in building construction. Emphasis will be on fluid distribution systems, electrical systems, conveying systems, and energy control systems. *Fall.*
- IT 252 CONSTRUCTION CONTRACT DOCUMENTS 3
Prereq.: IT 150. Comprehensive study of the relationship of the contract documents to the construction process. Emphasis on the use of contracts, conditions, specifications and related documents as they apply to the needs of the superintendent/project manager.

IT 254	CONSTRUCTION GRAPHICS	3	
	Prereq.: IT 150. Examination of the role of the quantity surveyor. Emphasis on interpretation of architectural, structural, mechanical and electrical drawings. Quantity surveys for sitework, concrete, masonry, steel and rough carpentry. Development of freehand detailed sketches.		
IT 351	BUILDING SYSTEMS I	3	
	Prereq.: IT 155. Design and analysis of heating, ventilating and air conditioning systems consistent with BOCA code requirements. Emphasis on the estimating, planning and management of HVAC installations in building construction. <i>Spring</i> .		
IT 352	BUILDING SYSTEMS II	3	
	Prereq.: IT 351. Design and analysis of fluid distribution systems consistent with BOCA code requirements. Emphasis on estimating, planning, and management of fluid distribution installations in building construction. <i>Fall</i> .		
IT 355	ESTIMATING FOR PRINTING	3	
	This course is designed to give the student a practical exposure to the many factors which must be considered when estimating a printing job. Actual estimates will be prepared, using a variety of fixed and variable costs. <i>Spring</i> .		
IT 359	PLANT LAYOUT	3	
	Covers the complete layout function as practiced in modern industry. A detailed analysis is made of the procedures used in placing equipment, organizing efficient machine-operator patterns and servicing of machines. Considerable time is devoted to practical work on actual layout problems, including integrated production lines, using such tools as layout templates, three-dimensional models, man-machine charts and process flow charts. The relationship of work standards, methods and layout inspection, production control and maintenance is also discussed. <i>Fall</i> .		
IT 360	PRODUCTION CONTROL	3	
	Analysis of skills required in supervising manufacturing departments. Emphasis upon production technologies, machine and tool operations and process control. <i>Area C</i>		
IT 362	LEADERSHIP SKILLS FOR SUPERVISORS	3	
	Designed as a bridge between technical courses and the art of supervising people. Potential line supervisors will develop specific abilities in applying leadership principles to everyday work situations through creative class participation in industrial case studies. Techniques of getting-the-job-done through people include motivation, delegation, discipline, teamwork, decision making, communications and problem identification. Goal-setting and objectives-planning techniques are also covered.		
IT 380	EMERGENCY MEDICAL TECHNICIAN (EMT)	3	
	Recognition of illnesses and injuries; training in the administering of appropriate emergency medical care. Classes will include demonstrations, practice sessions and 10 hours of in-hospital practicum.		
NOTE: CREDIT AUTOMATICALLY WILL BE GIVEN UPON PROOF OF CURRENT EMT CERTIFICATION AS ISSUED BY THE OFFICE OF EMERGENCY MEDICAL SERVICE, STATE OF CONNECTICUT.			
IT 400	SENIOR PROJECT	3	
	The selection of a problem in one area or facet of technology and the preparation of a term report. Areas will include planning, supervision, construction techniques, design innovations and labor relations. <i>On request</i> .		
IT 401	INDUSTRIAL INTERNSHIP	6	
	Prereq.: Permission of Industrial Technology Department chairperson. Designed to provide students an opportunity to observe, participate and work in an industrial environment directly related to their technical specialization. The internship is a program of experiences tailored for each intern with a specific cooperating company. Students must be employed during the semester they enroll. Applications may be obtained from the chairperson of the Industrial Technology Department. Graded on a pass-fail basis only.		
IT 402	TOPICS IN TECHNOLOGY	3	
	Prereq.: Permission of the department chairperson on request. An individualized inquiry of comprehensive study into a selected technical area. The student may elect to examine processes, products or developmental aspects of modern industry. Open only to Industrial Technology majors.		
IT 403	TECHNIQUES OF TECHNICAL TRAINING	1-3	
	Emphasis on instructional techniques and their application for the delivery of training programs to trainees in organizational settings. Areas of study include instructional objectives, presentation planning, delivery strategies, integration of audio-visual materials and development of approaches for assessing trainee achievements. <i>Irregular</i> .		
IT 404	ESTABLISHING TRAINING NEEDS AND DESIGNING PROGRAMS	3	
	Techniques for establishing training needs within an organization and use of task analysis to identify job-related attitudes, skills and knowledge as a base for training programs. Principles of training program design, in-house training materials development, criteria for selection of commercially prepared materials/ services and program delivery logistics. <i>Irregular</i> .		
IT 406	EVALUATION OF TRAINING EFFECTIVENESS	3	
	Methods and procedures used for assessing the effectiveness of training programs. Topics include purposes of evaluation, the evaluation plan, data collection techniques and instruments, data analysis, training costs and benefits and organizational factors affecting training results. <i>Irregular</i> .		
IT 410	INDUSTRIAL SAFETY	3	
	Theory of industrial safety with emphasis upon fundamental concepts in the industrial environment. Emphasis will be placed on the psychological, sociological and physiological aspects of industrial safety. <i>Both semesters. Area C</i>		
IT 411	INDUSTRIAL HYGIENE	3	
	Lectures and laboratory exercises covering evaluation and control of exposure to dust, fumes, mist, vapors, gases, radiation, noise and abnormal temperatures. <i>Spring. Area C</i>		
IT 412	PRINCIPLES OF OCCUPATIONAL SAFETY	3	
	Development and establishment of the internal policies of a plant or corporation as it relates to an accident prevention program for the safety and health of all its employees. The course will cover such subjects as safety training, job safety analysis, accident investigation, safety promotion, record keeping.		
IT 414	INDUSTRIAL LOSS CONTROL MANAGEMENT	3	
	Loss control philosophy and techniques. Background information and specific techniques required to develop and implement an effective company-wide and on-site loss control program, personnel responsibilities and total safety program. <i>Spring. Area C</i>		
IT 415	FIRE PROTECTION AND PREVENTION	3	
	Measures related to safeguarding human life and preservation of property in prevention, detection, extinguishing fires. <i>Spring</i> .		
IT 422	CONSTRUCTION SAFETY	3	
	Prereq.: IT 362 or permission of instructor. A study of safety problems in the construction environment with emphasis on the day-to-day activities of the construction safety coordinator. <i>Spring</i> .		
IT 432	WORKER/SUPERVISOR RELATIONS	3	
	Prereq.: IT 362 or MGT 301 or permission of instructor. To develop the role of worker-supervisor relationships in manufacturing industries		

by covering such topics as productivity, supervision within contract guides, union/non-union manufacturing conflicts, Method/Time Study implementation. *Spring.*

IT 433 TECHNIQUES OF CONFERENCE LEADING 3
Practical course in the techniques needed by the conference leader. Student puts into practice techniques learned, and is provided opportunities to lead conferences. Analysis of conference procedures, the leader's responsibility in a conference, selection and preparation of conference topics, use of auxiliary materials, techniques of control and summerization. *On request. Area C*

IT 453 STRUCTURAL DESIGN 3
Prereq.: MATH 115, TC 255 and 254. An introduction to structural analysis and design for the construction supervisor or structural technologist. Emphasis on the design properties of wood, steel and concrete. *Spring.*

IT 457 CONSTRUCTION SUPERVISION 3
Prereq.: Senior standing. Examination of the role of the construction supervisor. Emphasis on personnel scheduling, time keeping, trade unions, superintendents and the duties of the project manager.

IT 458 PRODUCTIVITY IMPROVEMENT 3
Course deals scientifically with analytical and creative problems affecting time. It covers the principles of methods, design and work measurement. The student acquires skill in using motion study techniques and learns how to establish standards. Applications to product design, machine and tool design, process planning, production scheduling, plant layout, budgeting, sales prices, manpower requirements, wage incentives and methods of improvements are studied. *Fall.*

IT 464 TOTAL QUALITY SYSTEMS I 3
Prereq.: STAT 104. Application of statistical techniques to meet the needs of continuous quality improvement in the industrial environment. Topics include variation, control and capacity, SPC for short run and advanced process control. Emphasis on developing a continuous quality improvement strategy through supplier certification standards. *Spring.*

IT 480 ROBOTICS 3
Prereq.: Senior standing or permission of instructor. The course provides an overview of the industrial robot to introduce the student to the science of flexible automata. The course emphasizes features, capabilities, programming, selection and implementation of industrial robots. *Fall and Summer. [c]*

IT 481 MOBILE ROBOTICS 3
Prereq.: IT 480. An examination of sensate, mobile automata. Includes the elements of communication, computation and control which are essential to the achievement of autonomous machine operation. *Spring. [c]*

INTERDISCIPLINARY

ID 099 FRESHMAN SEMINAR No Credit
Introduction to the expectations of the University, including essential study and academic skills. Assists students in using the resources and opportunities for education at Central Connecticut State. First-year students are encouraged to take this course during their first semester.

ID 200 HONORS WESTERN CULTURE I 6
Prereq.: ENG 110, ANTH 225, and designation as Honors Program participant. A survey of western culture from its beginnings in the Classical and Semitic world to the end of the Roman period *Fall. All modes except 2 and areas except B and D. (Does not satisfy laboratory course requirement of Mode 8.)*

ID 201 HONORS WESTERN CULTURE II 6
Prereq.: ID 200 and designation as Honors Program participant. A survey of Western culture from the Middle Ages through the Enlightenment. *Spring. All modes except 2 and areas except B and D. (Does not satisfy laboratory course requirement of Mode 8.)*

ID 310 HONORS WESTERN CULTURE III 6
Prereq.: ID 201 and designation as Honors Program participant. A survey of western culture in the 19th century. *Fall. All modes except 2 and areas except B and D. (Does not satisfy laboratory course requirement of Mode 8.) [I]*

ID 311 HONORS WESTERN CULTURE IV 6
Prereq.: ID 310 and designation as Honors Program participant. A survey of western culture in the 20th century. *Spring. All modes except 2 and areas except B and D. (Does not satisfy laboratory course requirement of Mode 8.) [I]*

ID 420 HONORS RESEARCH 3
Prereq.: ID 311 (may be taken concurrently). Independent research developed from previous Honors Program courses. Modal and area credit appropriate to subject matter.

INTERNATIONAL BUSINESS

Enrollment in 300- and 400-level Business courses requires admission to the School of Business or permission of the Assistant to the Dean.

IB 491 SPECIAL TOPICS IN INTERNATIONAL BUSINESS 1-3
Prereq.: Senior standing or permission of instructor. Study of selected topics in international business presented by international scholars and executives. Topics will be announced in advance and will vary from semester to semester. May be repeated for a maximum of three credits. *Irregular*

IB 495 FIELD STUDIES IN INTERNATIONAL BUSINESS 3
Prereq.: Permission of the instructor. Designed to enrich the student's understanding of the world as a marketplace by visiting foreign countries. Students will be able to observe and discuss international business problems with leading businesspeople. On-site seminars will be included. *Summer.*

IB 498 SEMINAR IN INTERNATIONAL BUSINESS 3
Prereq.: Senior standing. Advanced study of current trends in the global business environment. Emphasis will be on American competitive advantage in a global business context and a critical analysis of contemporary international business research. Course content will vary from semester to semester. *Spring.*

INTERNATIONAL STUDIES

See also Area Studies

IS 225 THE WORLD AS A TOTAL SYSTEM 3
Examination of global interdependence in its historic, ecological, economic, cultural and political dimensions. Analysis of selected contemporary global issues. Consideration of impact of global interdependence on our own local communities. *Spring. Mode 6, 7*

IS 226 INTERCULTURAL SENSITIVITY 3
An exploration of customs of the world's major societies, with an emphasis on those customs pertinent to cross-cultural understanding and the conduct of international relationships. *Fall. Mode 6, 7 [I]*

IS 475 INTERNATIONAL STUDIES SENIOR PROJECT 3
Prereq.: Senior standing and declared IS major. An independent

project developed by the student in consultation with International Studies adviser. The semester's work will integrate the geographic area and academic focus of the student's previous course work. *On demand.*

ITALIAN

- ITAL 111 ELEMENTARY ITALIAN I 3
 Fundamentals of Italian pronunciation and grammar taught from the beginning by the direct method. Students participate in conversation. Not open to students with one year of high school study. *Area B [I]*
- ITAL 112 ELEMENTARY ITALIAN II 3
 Prereq.: ITAL 111 or equivalent. Grammar reviewed and completed. Further practice in conversation, pronouncing and diction. No credit will be given to students with previous credit for more advanced coursework in Italian except by permission of the department chairperson. *Area B [I]*
- ITAL 125 INTERMEDIATE ITALIAN I 3
 Prereq.: One year of college Italian or equivalent. Principles of Italian language structure are reviewed. Short stories and plays are read and discussed. Conversation and composition on topics of general interest are practiced to improve oral and written expression. No credit will be given to students with previous credit for more advanced coursework in Italian except by permission of the department chairperson. *Fall. Area B [I]*
- ITAL 126 INTERMEDIATE ITALIAN II 3
 Prereq.: ITAL 125 or equivalent. Continuation of Italian 125. No credit will be given to students with previous credit for more advanced coursework in Italian except by permission of the department chairperson. *Spring. Area B [I]*
- ITAL 225 ITALIAN COMPOSITION AND DICTION 3
 Prereq.: ITAL 126 or instructor's permission. A course to train students in self-expression by means of frequent compositions in Italian in addition to systematic drills in pronunciation and intonation. *Fall. Area B [I]*
- ITAL 226 ITALIAN STRUCTURE AND IDIOM 3
 Prereq.: ITAL 225 or equivalent preparation. A course designed to develop correct idiomatic usage and fluency of expression. *Spring. Area B [I]*
- ITAL 305 LITERARY MASTERPIECES SINCE 1800 3
 Prereq.: ITAL 226 (may be taken concurrently). Introduction to major works in Italian literature since 1800. *Spring. Mode 3 [I]*
- ITAL 315 ITALIAN CIVILIZATION TO 1861 3
 Prereq.: ITAL 226 (may be taken concurrently). The cultural development of Italy from its beginnings to unification. *Fall. [I]*
- ITAL 316 ITALIAN CIVILIZATION FROM 1861 TO THE PRESENT 3
 Prereq.: ITAL 226 (may be taken concurrently). Cultural development of Italy from 1861 to the present. *Spring. [I]*
- ITAL 335 ADVANCED COMPOSITION AND DICTION 3
 Prereq.: ITAL 226. Additional practice in written and oral expression. *On request. [I]*
- ITAL 336 ADVANCED STRUCTURE AND IDIOM 3
 Prereq.: ITAL 335. Additional practice in idiomatic usage and verbal fluency. *On request. [I]*
- ITAL 360 LITERARY MASTERPIECES TO 1800 3
 Prereq.: ITAL 226 (may be taken concurrently). Introduction to great works of Italian literature from the Middle Ages to 1800. *Fall. Mode 3*
- ITAL 441 ADVANCED ORAL PRACTICE I 3
 Prereq.: Instructor's permission. Development of fluency in oral self-expression. Speech analysis to improve pronunciation and intonation. *On request. [I]*
- ITAL 442 ADVANCED ORAL PRACTICE II 3
 Prereq.: ITAL 441 or instructor's permission. Further practice in oral self-expression. *On request. [I]*
- ITAL 460 ADVANCED WRITTEN ITALIAN 3
 Prereq.: ITAL 335 or equivalent. A course in written expression of Italian, particularly in idiomatic free composition, to establish an appreciation for Italian style and develop the ability to express shades of meaning. *On request. [I]*
- ITAL 470 14TH CENTURY ITALIAN LITERATURE 3
 Prereq.: ITAL 305 or instructor's permission. Study of the period with special emphasis on Dante, Petrarch, Boccaccio. *On request.*
- ITAL 471 20TH CENTURY ITALIAN LITERATURE 3
 Prereq.: Permission of instructor. Representative authors and literary movements of the 20th century. *On request. [I]*
- ITAL 476 16TH CENTURY ITALIAN LITERATURE 3
 Prereq.: ITAL 305 or instructor's permission. Italian Renaissance major works with special emphasis on the Epic. *On request.*
- ITAL 488 ITALIAN LIFE AND CULTURE 3
 Prereq.: Permission of instructor. Discussion of contemporary Italian society, traditions and values. *On request. Area B*

JAPANESE

- JAPN 111 ELEMENTARY JAPANESE I 3
 Basic sounds and structure patterns of Japanese are established through a direct audiolingual approach. *Area B [I]*
- JAPN 112 ELEMENTARY JAPANESE II 3
 Prereq.: JAPN 111. Continuation of Japanese 111. No credit will be given to students with previous credit for more advanced coursework in Japanese except by permission of the department chairperson. *Spring. Area B [I]*
- JAPN 125 INTERMEDIATE JAPANESE I 3
 Prereq.: One year of college Japanese or equivalent. Continuation and review of grammar and structure. Development of reading skills. *Fall. Area B [I]*
- JAPN 126 INTERMEDIATE JAPANESE II 3
 Prereq.: JAPN 125 or equivalent. Further study of grammar and structure. Readings in literary and cultural areas. *Spring. Area B [I]*
- JAPN 225 JAPANESE COMPOSITION AND DICTION 3
 Prereq.: JAPN 126 or permission of instructor. To train students in self-expression by means of frequent compositions, systematic drills in pronunciation and intonation, and readings in Japanese literature and culture. *Fall. Area B [I]*
- JAPN 226 JAPANESE STRUCTURE AND IDIOM 3
 Prereq.: JAPN 126 or permission of instructor. To develop correct idiomatic usage and fluency of expression. Readings in Japanese literature. *Spring. Area B [I]*
- JAPN 335 ADVANCED COMPOSITION AND DICTION 3
 Prereq.: JAPN 226 or equivalent. Further study of sentence and discourse structure in Japanese and analysis of the Japanese communicative style. Designed to expand the student's speaking and listening skills. *Fall. [I]*

JAPN 336 ADVANCED STRUCTURE AND IDIOM 3
Prereq.: JAPN 335 or permission of instructor. Continuation of JAPN 335 with emphasis on development of reading comprehension skills. *Spring. [I]*

LATIN

LAT 111 ELEMENTARY LATIN I 3
Study of the elements of Latin grammar. Not open to students with one year of high school study. *Fall. Area B*

LAT 112 ELEMENTARY LATIN II 3
Prereq.: LAT 111 or equivalent. Continuation of LAT 111; development of reading skills. *Spring. Area B*

LAT 125 INTERMEDIATE LATIN I 3
Prereq.: LAT 111 or 112, or equivalent. Continuation and review of grammar and structure. Development of reading skills. *Fall. Area B*

LAT 126 INTERMEDIATE LATIN II 3
Prereq.: LAT 125 or equivalent. Continuation of LAT 125. Further study of Latin grammar, structure and reading. *Spring. Area B*

LAW

Enrollment in 300- and 400-level Business courses requires admission to the School of Business or permission of the Assistant to the Dean.

LAW 250 PRINCIPLES OF LAW 3
Prereq.: 30 s. h. completed before beginning course work. A study of the legal system of the United States and its relationship to the business manager, contracts, sales, negotiable instruments and agency. *Area C*

LAW 401 LEGAL ENVIRONMENTS OF BUSINESS 3
Prereq.: LAW 250. A study of the business-law relationship in the areas of regulation and administrative law, securities regulation, antitrust, patents and copyrights, consumer protection, labor and equal opportunity and international business activities.

MANAGEMENT

Enrollment in 300- and 400-level Business courses requires admission to the School of Business or permission of the Assistant to the Dean.

MGT 301 PRINCIPLES OF MANAGEMENT 3
An introduction to the principles of management and their application to business. Emphasis on the development of a philosophy of management and interpersonal behavior within organizations.

MGT 305 HUMAN RESOURCE MANAGEMENT 3
Prereq.: MGT 301. Study of the management of human resources. Philosophies and concepts of human resources management. Employment and development of people: recruitment, selection, appraisal, training and development of employees and managers. Financial compensation (job evaluation and service-rating principles and applications), health and safety, employee security programs and grievance handling. Leadership and motivation. Labor relations both with individuals and organized groups, with some attention to the laws governing unions; collective bargaining, contracts in both public and private employment. Analysis of current issues. Some emphasis upon case study analysis.

MGT 321 INTERNATIONAL MANAGEMENT 3
Prereq.: MGT 301. An introductory course in the field of international management that focuses on the diverse environmental forces and

factors that affect the operations and performance of multinational corporations. A comparative approach is used to develop some comprehension of the wide range of business conditions that exist in various regions of the world. *[I]*

MGT 345 ORGANIZATIONAL THEORY 3
Prereq.: MGT 301. Provides a systematic understanding of complex business organizations in modern society. The unit of analysis will be the organization and its major subunits. Explores how organizations shape and influence behaviors and develops a conceptual framework for analyzing the design and operation of business corporations and other complex organizations.

MGT 348 MANAGEMENT SYSTEMS 3
Prereq.: MGT 301. Provides an understanding of the complex sociotechnical systems in organizations. Examines the relationship between technology and social systems by applying general systems theory. Emphasizes the relationship of machines, work processes and methods to organization structure and human relationships. Alternative strategies for managing change and innovation will be explored.

MGT 403 SOCIAL ISSUES FOR MANAGERS 3
Prereq.: MGT 301. Defines contemporary issues of corporate social responsibility and explores the impact of these issues on managerial decision-making behaviors. Emphasizes contemporary social issues that emerge in the external environment of business. Defines societal expectations of organizations regarding corporate social responsibility.

MGT 425 MANAGEMENT AND COLLECTIVE BARGAINING 3
Prereq.: MGT 301. Introduction to managerial problems in personnel and labor-management relations. Examination of issues encountered in the management of workers under collective bargaining agreements, and in contract administration. Lectures and simulations will be used.

MGT 426 BUSINESS ORGANIZATIONAL BEHAVIOR 3
Prereq.: MGT 301. A study of human behavior in organizations. Covers topics such as communication, decision making, team development, leadership, motivation and productivity. Attention is given to behavioral science methods, research and findings as applied to organizational management.

MGT 430 STRATEGIC MANAGEMENT AND POLICY 3
Prereq.: 90 credits, including FIN 300, MGT 301 and MKT 303. A course which deals with the establishment of company-wide objectives and the subordinate plans and controls to accomplish them. This course integrates and builds upon the School of Business common core requirements to develop decision-making ability at the policy-making level of administration.

MGT 431 COMPENSATION AND BENEFITS 3
Prereq.: MGT 305. A systematic exploration of compensation theory and practice including job analysis, design and evaluations; pricing of job structures; wage incentives; profit sharing and fringe benefits and managing compensation systems.

MGT 481 MANAGEMENT OF NON-BUSINESS ORGANIZATIONS 3
Prereq.: MGT 301. This course will apply basic principles of management of profit-making organizations to those in not-for-profit sectors. Areas discussed will be the management problems affecting hospitals, charitable organizations, foundations and unions.

MGT 490 MANAGEMENT TOPICS 3
Prereq.: Senior standing. Selected topics in management, organization theory and human resources management as announced in advance. Subtitle and course content will vary from semester to semester and from section to section.

MGT 494 ENTREPRENEURSHIP 3
 Prereq.: FIN 300 or permission of instructor. Entrepreneurship and its role as a fundamental component of our economic system is discussed. The resources needed to start a new business are outlined as a framework for the formulation of a well-conceived business plan.

MGT 497 INDEPENDENT STUDY IN MANAGEMENT 3
 Prereq.: Special Project Request Form, senior standing and a grade-point average of at least 3.00. Students, with approved proposals, identify and investigate managerial problem areas as well as organizational growth and development phenomena. Progress and performance are monitored and evaluated by the faculty adviser who has approved the study project.

MGT 498 MANAGEMENT SEMINAR 3
 Prereq.: Senior standing. An examination of the latest development in management and organizational theory. Emphasis will be on current trends in the theory and practice of management using up-to-date management literature and research. Course content will vary from semester to semester.

MANAGERIAL COMMUNICATIONS

MC 207 MANAGERIAL COMMUNICATIONS 3
 Prereq.: ENG 110 and sophomore standing. The study and development of effective business correspondence, reports and communications systems. Selected assignments include written and oral reports used in business. *Area A*

MANAGEMENT INFORMATION SYSTEMS

Enrollment in 300- and 400-level Business courses requires admission to the School of Business or permission of the Assistant to the Dean.

MIS 201 INTRODUCTION TO MANAGEMENT INFORMATION SYSTEMS 3
 The course provides the background necessary for understanding the role of information systems in organizations and for using computer tools and technology in solving business problems. Topics include organizational foundations of information systems, technical foundations of information systems, building information systems, and the management of information. *Not open to CS majors. [c]*

MIS 210 APPLICATION PROGRAM DEVELOPMENT I 3
 Prereq.: MIS 201. An introduction to computer programming in a business environment. Emphasis on the fundamentals of structured program design, development, testing, implementation and documentation of common business-oriented applications using COBOL. Discussion and application of top-down design strategies and structured programming techniques for designing and developing problem solutions. *[c]*

MIS 211 APPLICATION PROGRAM DEVELOPMENT II 3
 Prereq.: MIS 210. A continuation of MIS 210. Emphasis on structured methodology of program design, development, testing, implementation and documentation of common business-oriented applications using COBOL. Includes development of programs and systems of programs for batch and interactive environments. *[c]*

MIS 330 INFORMATION SYSTEMS-ANALYSIS AND DESIGN 3
 Prereq.: MIS 201. Overview of the system development life cycle. Emphasis on current documentation through the use of both classical and structured tools, techniques for describing process flows, data structures, file designs, input and output designs and program specifications. Discussion of the information gathering and reporting activities, and of the transition from analysis to design. *[c]*

MIS 331 STRUCTURED SYSTEMS ANALYSIS AND DESIGN 3
 Prereq.: MIS 330. Advanced study of structured systems development. Emphasis on strategies and techniques of structured analysis and structured design for producing logical methodologies for dealing with complexity in the development of information systems. *[c]*

MIS 340 DATABASE PROGRAM DEVELOPMENT 3
 Prereq.: MIS 330. Introduction to application program development in a database environment with an emphasis on loading, modifying and querying the database. Discussion of storage devices, data administration and data analysis, design and implementation. *[c]*

MIS 400 DECISION SUPPORT AND EXPERT SYSTEMS 3
 Prereq.: MIS 330 and senior standing. The course provides an introduction to management information support systems, designed to aid managers and others in the decision-making process. These systems include Decision Support Systems (DSS), Group Decision Support Systems (GDSS), Executive Information Systems (EIS), and Expert Systems (ES). *Fall. [c]*

MIS 410 DISTRIBUTED DATA PROCESSING 3
 Prereq.: MIS 330 and senior standing. The features of centralized, decentralized and distributed systems will be examined. The impact of distributed systems on the business enterprise will be exposed via the medium of case studies. Technology implications of computer hardware, software and communications are discussed as they relate to the design, development and implementation of distributed data processing systems. *Spring. [c]*

MIS 420 EDP AUDIT AND CONTROLS 3
 Prereq.: MIS 330 and senior standing. An introduction to EDP auditing. Emphasis on EDP controls, types of EDP audits, and concepts and techniques used in EDP audits. Exposure to risk assessment and professional standards in the field of EDP auditing. *Fall. [c]*

MIS 430 INFORMATION SYSTEMS PLANNING 3
 Prereq.: MIS 330 and senior standing. An introduction to the financial, technical and strategic information systems planning processes. Emphasis on the relationship of the information systems planning process to the overall business goals, policies, plans, management style and industry conditions. Emphasis on the means of selecting large systems projects; assessing the installation's current state; determining processing, staffing, software, hardware and financing approaches. Review of hardware, software and services information sources. *Spring. [c]*

MIS 440 INFORMATION RESOURCE MANAGEMENT 3
 Prereq.: MIS 330 and senior standing. A seminar course providing a broad overview of the information systems management function. The course emphasizes information systems management, with particular attention to planning, organizing and controlling user services and managing the computer information systems development process. *Spring. [c]*

MIS 460 EMERGING TECHNOLOGIES FOR BUSINESS 3
 Prereq.: Senior standing. Analysis of current topics and developments in emerging technologies. Application of these technologies to support decision-making in enterprises. Design of alternate information systems and strategies. *On demand. [c]*

MIS 494 INDEPENDENT STUDY IN MANAGEMENT INFORMATION SYSTEMS 1-6
 Prereq.: Senior standing. Special study or research projects. Progress and performance are monitored and evaluated by a qualified MIS faculty adviser. May be repeated with different topics for a maximum of 6 credits. *On demand. [c]*

MIS 498 INFORMATION AND DECISION SCIENCES SEMINAR 3
 Prereq.: Senior standing. An examination of the current trends in the theory and business practices of information and decision sciences. *On demand [c]*

MARKETING

Enrollment in 300- and 400-level Business courses requires admission to the School of Business or permission of the Assistant to the Dean.

MKT 303 MARKETING PRINCIPLES 3
 Overall general view of scope and significance of marketing, with emphasis on marketing consumer and industrial goods, analysis of marketing institutions, analysis of marketing functions, and an introduction to marketing policies and practices of business firms. *[c] Area C*

MKT 305 CONSUMER BEHAVIOR 3
 Prereq.: MKT 303. Examines the influence of psychological, sociological and cultural factors on buying behavior of consumers and industrial buyers. Shows how this knowledge is indispensable to the marketing manager when he or she delineates target markets and makes decisions about product, price, promotion, and channels of distribution. Current theories and models are related to present practices and potential applications.

MKT 306 ADVERTISING AND PROMOTION 3
 Prereq.: MKT 303. The study of advertising and its relationship to marketing. Specific topics include communication theory, advertising management in both agencies and marketing firms, media, measuring advertising effectiveness, promotional strategy, and advertising's social responsibilities.

MKT 307 SALES ADMINISTRATION 3
 Prereq.: MKT 303. Examines the organization of sales departments and how to select, train, administer, and evaluate the sales force. Techniques of sales forecasting, planning, and analysis are explored.

MKT 311 RETAILING 3
 Prereq.: MKT 303. Discussions of retail store problems, opportunities and trends in retailing, store organizations, merchandising, and store management.

MKT 313 MERCHANDISING 3
 Prereq.: MKT 311. Discusses the basic elements of buying, merchandising, stock controls, product information, and fashion analysis as they apply to the retailer and consumer.

MKT 321 INTERNATIONAL MARKETING 3
 Prereq.: MKT 303. An analysis of the techniques, procedures and strategies used by multinational firms. Potential problems are explored. Methods and sources of data for determining products to sell and countries in which to sell them are studied. *[I]*

MKT 330 SALES TECHNIQUE AND TRAINING 3
 Prereq.: MKT 303. A study of the characteristics of the good salesperson, types of salespeople, psychology of selling and sales techniques; an overview of the training of salespeople.

MKT 340 PRODUCT DEVELOPMENT AND MANAGEMENT 3
 Prereq.: MKT 303. A systematic examination of the processes by which new products are developed and incorporated into the marketing mix, existing products are evaluated and managed, and uneconomic products are demarketed.

MKT 350 DISTRIBUTION MANAGEMENT 3
 Prereq.: MKT 303. A critical analysis of the various distributive strategies, the underlying theories of distribution channels, the techniques of costing alternative trade channels, and the structuring of channel intermediaries.

MKT 413 INDUSTRIAL MARKETING 3
 Prereq.: MKT 303. Organization, principles, policies, procedures and techniques used in effective and efficient buying and selling of materials, equipment, and supplies by business and industry. Emphasis on roles of purchasing agents in wholesale organizations and buyers in retail establishments.

MKT 423 MARKETING RESEARCH 3
 Prereq.: MKT 303 and STAT 104. Overview of research methods and procedures used in marketing to help solve marketing problems. Analysis of basic research designs and methods of collecting and interpreting data. *[c]*

MKT 443 ADVANCED CONCEPTS IN RETAILING 3
 Prereq.: MKT 313 and senior status or instructor's permission. Analysis of current problems in retailing by applying principles of merchandising, human relations, marketing, and management via case and/or site studies. The course will involve fieldwork and classroom seminar sessions.

MKT 450 STRATEGIC MARKETING 3
 Prereq.: MKT 305 and 423 or permission of instructor. Developing marketing strategy to achieve and sustain competitive advantage in a complex, dynamic environment. Integrating and applying marketing principles, consumer behavior theory, and analytic techniques to case studies, simulated marketing scenarios, or real world projects.

MKT 460 EXPORT MARKETING 3
 Prereq.: MKT 303, 321 and senior standing or permission of instructor. Opportunities, constraints, and complexities in the strategy of marketing products and services in overseas markets. Marketing activities and institutions that are unique to export marketing.

MKT 480 MARKETING FOR NON-PROFIT ORGANIZATIONS 3
 Prereq.: MKT 303. A comprehensive study of the techniques used in marketing as they apply to non-profit organizations such as hospitals, governments, social action groups, educational institutions, religious institutions, etc. Topical areas to be covered will include market analysis, promotion decisions, market information systems, and decision making in non-profit structures.

MKT 494 INDEPENDENT STUDY IN MARKETING 1-6
 Prereq.: MKT 303, senior standing, and permission of the supervising instructor, the department chairperson, and the Dean of the School of Business. Special study or research projects, as assigned. Students with a deep interest in a narrow subject area explore their topic in detail.

MKT 495 FIELD STUDIES IN INTERNATIONAL MARKETING 3
 Prereq.: Permission of the instructor. Course is designed to enrich the student's understanding of the world as a marketplace by visiting foreign countries. Students will be able to observe and discuss marketing problems with leading foreign businessmen. On-site seminars will be included. *[I]*

MKT 498 MARKETING SEMINAR 3
 Prereq.: MKT 303 and senior standing. Exposes students to the latest developments in the field of marketing. Emphasis is placed on current advanced books and literature in relevant journals. Content will vary from semester to semester.

MATHEMATICS

¹These courses cannot be used to meet the requirements for a major or secondary concentration in mathematics and are not recommended by this department for use in meeting certification requirements in teaching secondary school mathematics.

*No student is permitted to use both MATH 103 and 105 to satisfy the General Education requirements.

¹ECM 099 ELEMENTARY ALGEBRA Non-Credit
Review of the fundamental algorithms of whole numbers, integral numbers, rational numbers and elementary algebra.

¹MATH 101 INTERMEDIATE ALGEBRA 3
Prereq.: ECM 099 or Placement Exam. Review and extension of elementary algebra. A study of functions including their algebraic properties and graphs. Quadratic equations and inequalities are solved and graphed. No credit given to students with credit for MATH 115, 121, or 125. This is not a mode course.

¹MATH 103 NUMBER SYSTEMS 3
Prereq.: ECM 099 or Placement Exam. Nature of mathematics and theory of sets and relations. The natural number system is extended by analysis of its properties to integers, rational numbers and real numbers. Various numeration systems are investigated. No credit given to students with credit for MATH 366. *Elementary Education majors only. Mode 2**

¹MATH 105 FUNDAMENTALS OF MATHEMATICS 3
Prereq.: ECM 099 or Placement Exam. This course is intended for those students who are not majoring in mathematics or the natural sciences. It will provide the student an introduction to a broad range of topics in mathematics. No credit given to students with credit for MATH 218. *Mode 2**

¹MATH 115 TRIGONOMETRY 3
Prereq.: MATH 101 (C- or higher) or Placement Exam. Study of relations, functions (special emphasis on the six trigonometric functions), inverses and graphs. An analytic approach to trigonometry using circular functions, angular measures, identities, graphs and inverses. No credit given to students with credit for MATH 221. *Mode 2*

MATH 121 PRE-CALCULUS MATHEMATICS 3
Prereq.: MATH 115 (may be taken concurrently) or Placement Exam. First course in a unified first-year student-sophomore program in mathematical analysis. Properties of the real numbers, relations and functions, exponential and logarithmic functions, mathematical induction and conics. No credit given to students with credit for MATH 122 or 125. *Mode 2*

MATH 122 CALCULUS I 4
Prereq.: MATH 115 (C- or higher), MATH 121 (C- or higher) or Placement Exam. Limits and continuity, derivatives, applications of derivatives, antiderivatives definite integrals, and applications of definite integrals. *Mode 2*

¹MATH 125 APPLIED CALCULUS I 3
Prereq.: MATH 101 (C- or higher) or Placement Exam. This course is for students majoring in the social, biological, behavioral and managerial sciences. Topics include review of algebra, differentiation and integration. No credit given to students with credit for MATH 122. *Mode 2*

¹MATH 126 APPLIED CALCULUS II 3
Prereq.: MATH 125. Continuation of MATH 125. Topics include techniques of integration, application of integrals, differential equations and multivariate calculus. No credit given to students with credit for MATH 221. *Mode 2*

¹MATH 140 FINITE MATHEMATICS 3
Prereq.: STAT 104 or 215, two years of high school algebra and Placement Exam. Topics to include those chosen from logic, theory of sets, counting techniques, probability theory, linear equations, linear programming, matrix algebra, graph theory and Markov chains. Emphasis placed on the construction of mathematical models and their applications. *Fall. Mode 2*

¹MATH 203 LOGIC AND GEOMETRY 3
Prereq.: MATH 103. Elementary geometry using "point-set" approach with introduction to logic. No credit given to students with credit for MATH 323 or 333. *Elementary Education majors only. Mode 2*

MATH 218 DISCRETE MATHEMATICS 4
Prereq.: MATH 122 (C- or higher). Topics include logic, induction, recursion, combinatorics, matrices, graph theory, set theory and number theory.

MATH 221 CALCULUS II 4
Prereq.: MATH 122 (C- or higher). Continuation of MATH 122. Differentiation and integration of transcendental functions, techniques of integration, indeterminate forms, improper integrals, sequences and infinite series. *Mode 2*

MATH 222 CALCULUS III 4
Prereq.: MATH 221 (C- or higher). Continuation of MATH 221. Parametric equations, polar coordinates, two- and three-dimensional vectors, three-dimensional analytic geometry, functions of several variables, partial differentiation, double and triple integrals.

MATH 228 INTRODUCTION TO LINEAR ALGEBRA 3
Prereq.: MATH 122 and 218. Vector spaces, systems of linear equations, determinants, linear transformations and matrices are considered.

MATH 300 MATHEMATICS INTERNSHIP 3
Prereq.: Permission of the department and a 3.00 or higher departmental grade-point average. Designed to provide students an opportunity to work in a business environment directly related to their major or specialization. Each student will apply his/her classroom knowledge in mathematics, actuarial science, operations research and/or statistics in an appropriate business setting. Graded on pass-fail basis only.

¹MATH 303 LEARNING AND CURRICULUM STUDIES
IN MATHEMATICS 2
Prereq.: MATH 203. Concepts underlying contemporary mathematics curriculum for elementary school. Nature of fundamental operations on set of whole and rational numbers, with additional emphasis on approaches used in leading pupils to understanding of both concepts and processes.

¹MATH 305 THE REAL NUMBER SYSTEM 3
Prereq.: MATH 103. Continuation of MATH 103. Further work with real numbers. Special characteristics of the whole numbers will be discussed. Topics include Fibonacci numbers, Pythagorean triples, approximate numbers, sequences and series. *Fall.*

¹MATH 306 DEVELOPMENT OF MATHEMATICAL IDEAS 3
Prereq.: MATH 305. Continuation of MATH 305. Study of concepts underlying the development of mathematical ideas with emphasis on structure and proof in selected topics from algebra and geometry. *Spring.*

¹MATH 307 TOPICS IN ELEMENTARY MATHEMATICS 1-3
Prereq.: Permission of instructor. Selected elementary topics in mathematics covering specialized areas not offered in the regular curriculum. May be repeated with different topics for a maximum of 3 credits. *Irregular.*

- MATH 308 TEACHING MATHEMATICS IN THE MIDDLE SCHOOL 3
Prereq.: MATH 303 or 327. Study of the concepts underlying a contemporary mathematics program in the middle school with emphasis on both the structure of the mathematics content and the procedures used in teaching for understanding. *Spring.*
- ¹MATH 309 MATHEMATICS THROUGH COMPUTERS 3
Prereq.: MATH 121 or 203. Use of a computer to enhance and reinforce student's understanding of mathematical concepts. Topics include the use of Logo to investigate geometric concepts, and the exploration of several software packages dealing with algebraic concepts. *Fall. [c]*
- MATH 323 COLLEGE GEOMETRY 3
Prereq.: MATH 218 and 221. Euclidean geometry from a modern viewpoint, with emphasis on the structure of deductive systems and methods of proof. Real number system as a model for Euclidean geometry, betweenness, separations and convexity, measure, congruence, parallelism, similarity and construction. *Spring.*
- MATH 327 FOUNDATIONS OF SECONDARY SCHOOL MATHEMATICS I 3
Prereq.: Application filed for acceptance by the department to the professional education program. Careful study of topics currently found in secondary school mathematics curricula. Topics covered include mathematical systems, number systems, numeration systems, logic and structure of algebra. Emphasis is on underlying concepts which unify content of secondary school mathematics. *Spring.*
- MATH 328 FOUNDATIONS OF SECONDARY SCHOOL MATHEMATICS II 3
Prereq.: Application filed for acceptance by the department to the Professional Education Program. Topics considered will be chosen from Algebra II, Geometry and Trigonometry. *Fall.*
- MATH 333 PROJECTIVE GEOMETRY 3
Prereq.: MATH 122, and 228 or 366. An introduction to the basic concepts of projective geometry and point transformation. Topics include cross-ratio, homographic ranges and pencils, duality, ideal points, conics, poles and polars. *Spring. (O)*
- MATH 335 THEORY OF INTEREST 3
Prereq.: MATH 221. Theory and applications of the theory of interest. Topics include simple and compound interest, installment buying, annuities certain, sinking funds, amortization, depreciation, bonds and related securities. *Spring. (E)*
- MATH 366 INTRODUCTION TO ABSTRACT ALGEBRA 3
Prereq.: MATH 218, 122. Certain fundamental structures such as groups, rings, integral domains and fields are considered.
- MATH 398 INDEPENDENT STUDY IN MATHEMATICS 1-3
Prereq.: MATH 228 OR 366, and a 3.00 G.P.A. in mathematics and permission of instructor. Special independent work to meet individual interest in areas not covered by the regular curriculum. Work will be under the supervision of a faculty member and in an area and for an amount of credit agreed upon prior to registration for the course. *On request.*
- MATH 404 TOPICS IN MATHEMATICS 3
Prereq.: MATH 221 and junior standing. Selected topics in mathematics covering specialized areas not covered in regular course offerings or that go beyond that provided for in the standard curriculum. May be repeated with different topics for up to 6 credits. *Irregular.*
- MATH 411 CLINICAL EXPERIENCE IN MATHEMATICS EDUCATION 1
Prereq.: MATH 327 or 328 or 308 or permission of instructor. This course provides the prospective mathematics teacher with an opportunity to gain practical experience in a tutorial or small-group-instruction setting. The student will spend a minimum of three hours each week in the Math Center at CCSU, working one-on-one with small groups of students seeking help with mathematics. The director of the Math Center will coordinate and oversee the activities of students enrolled in this course (including receiving reports from cooperating teachers). May be repeated for up to 4 credits but cannot be taken more than once in any semester.
- MATH 413 TEACHING OF MATHEMATICS IN THE SECONDARY SCHOOL 3
Prereq.: MATH 327 and application filed for acceptance by the department to the professional education program (taken concurrently with student teaching). Problems of teaching secondary school mathematics. Items such as textbooks, modern curriculum, modern programs and trends in teaching mathematics are considered. Considerable time is devoted to discussion of teaching problems as they arise in student teaching. *Fall.*
- MATH 421 HISTORY OF MATHEMATICS 3
Prereq.: MATH 221. Development of mathematics is traced from arithmetic of commerce, astronomy, geometry and trigonometry in Babylonia, Egypt, Greece and Rome to the later accomplishments in algebra, geometry and calculus. *Spring. (O)*
- MATH 425 MATHEMATICS LABORATORY 3
Prereq.: Application filed for acceptance by the department to the professional education program. Construction and use in the laboratory of models, materials and instruments which illustrate principles and applications of mathematics. *Summer.*
- MATH 431 TECHNIQUES IN DIAGNOSIS AND REMEDIATION FOR THE TEACHING OF MATHEMATICS — K-12 3
Prereq.: MATH 303 or 327, and student teaching. This course will train elementary, intermediate and secondary teachers in remediation. The course will use a clinical case study approach so that each student will get a practical as well as a theoretical experience. Topics include identifying the factors related to learning difficulties in mathematics in the cognitive and affective domains, diagnostic tests, identification of the underachiever and case studies.
- ¹MATH 441 INTRODUCTION TO CONCEPTS OF ANALYSIS I 3
Prereq.: MATH 103. Extension of MATH 103. Equations, inequalities, functions, relations and graphs. No credit given to students with credit for MATH 121. *Fall.*
- ¹MATH 442 INTRODUCTION TO CONCEPTS OF ANALYSIS II 3
Prereq.: MATH 441. Extension of MATH 441. Basic concepts of trigonometric functions of angle and of real numbers and analytic geometry, including polar coordinates. Introduction to calculus and other selected topics. No credit given to students with credit for MATH 122, 125. *Spring. (O)*
- ¹MATH 446 INTRODUCTION TO COMPUTERS AND COMPUTER PROGRAMMING 3
Prereq.: MATH 121 or 125 or 441 or equivalent. Introductory course for those students with a limited mathematics background who desire a basic understanding of a computer, how it relates to everyday life and how to communicate with it. Topics include computer components, computer usage, programming and the computer impact on the many facets of our society. The time-shared terminal will be used. No credit given to Mathematics majors or concentrates (except Elementary concentrates) or to students with credit for MATH 221, 471 or CS 151. *Spring. [c]*

- MATH 449 MATHEMATICS LABORATORY FOR ELEMENTARY SCHOOL** 3
Prereq.: MATH 303 or equivalent, and student teaching. Provides teachers in elementary school with the opportunity to make mathematical models to assist in presenting mathematical concepts. Each participant constructs mathematical models, transparencies for overhead projectors and manipulative devices appropriate to the student's teaching level and interest. Mathematics projects and educational implications are discussed. *Summer.*
- MATH 463 INTRODUCTION TO DIFFERENTIAL EQUATIONS** 3
Prereq.: MATH 221. Methods of solution of ordinary differential equations, including the Laplace Transform. Some elementary applications in geometry, physics and chemistry. *Spring.*
- MATH 466 INTRODUCTION TO RINGS AND FIELDS** 3
Prereq.: MATH 366. An in-depth study of rings and related topics including basic ring theorems, ideals, quotient rings, divisibility theory in integral domains, polynomial rings, simple field extensions and finite fields. *Spring. (O)*
- MATH 468 SYMBOLIC LOGIC** 3
Prereq.: MATH 366 or equivalent. Introduction to truth, validity and argument. Methods of deduction, propositional functions and quantifiers, logic of relations, deductive system and propositional calculus. *Fall. (O)*
- MATH 469 NUMBER THEORY** 3
Prereq.: MATH 366 or equivalent. Elementary theory of numbers. Divisibility, prime numbers, Fundamental Theorem of Arithmetic, congruences, Diophantine equations, quadratic residues and continued fractions are among topics considered. *Fall. (O)*
- MATH 470 MATHEMATICAL METHODS IN OPERATIONS RESEARCH** 3
Prereq.: STAT 416 or 216 (may be taken concurrently), and MATH 140 or 228. Selected topics chosen from the areas of linear programming, queuing theory, decision analysis, network analysis and simulation. *Spring. (O)*
- MATH 471 COMPUTER PROGRAMMING** 3
Prereq.: MATH 221. Introduction to computer programming with emphasis on the analysis of classes problems, the design of algorithm for solving them and the use of computer language for implementation. No credit given to students with credit for CS 151. *[c]*
- MATH 472 COMPUTER SYSTEMS ORGANIZATION** 3
Prereq.: MATH 471 or CS 151, and MATH 221. This course introduces concepts of assembler language, machine language, macro-instructions, subroutines, program check out, interrupt structure of assemblers, use of an operating system. Oriented toward mathematics. No credit given to students with credit for CS 254. *[c]*
- MATH 477 NUMERICAL ANALYSIS I** 3
Prereq.: MATH 221, and MATH 471 or CS 151. Selected topics including difference operators, iterative methods of finding zeros of functions, interpolation and polynomial approximation, numerical integration and differentiation, matrices and systems of linear equations. *Fall. [c]*
- MATH 478 NUMERICAL ANALYSIS II** 3
Prereq.: MATH 221 and 471 or CS 151. Selected topics in numerical analysis with emphasis on computer solutions of problems. *Spring. (E) [c]*
- MATH 479 ELEMENTS OF APPLIED MATHEMATICS** 3
Prereq.: MATH 222, and MATH 471 or CS 151. The calculus of finite differences. Selected topics from difference operators, summations, interpolation, numerical approximations, gamma, beta and psi functions and the solution of difference equations. *Spring. (O) [c]*

- MATH 483 GENERAL TOPOLOGY** 3
Prereq.: MATH 221 and 366. Rigorous study of point-set topology. Topics include set theory, definition and basic properties of topological spaces, continuous functions and homeomorphisms. *Fall. (O)*
- MATH 486 COMPLEX VARIABLES** 3
Prereq.: MATH 221. An introduction to the theory of functions of a complex variable. Topics include the field of complex numbers, complex analytic functions, elementary functions and their mapping properties, integration theory and power series expansion of analytic functions. *Spring. (E)*
- MATH 491 ADVANCED CALCULUS** 3
Prereq.: MATH 222. Topics from continuity and differentiability of functions of several variables, exterior differential forms, multiple and iterated integration, line integrals, Gauss', Green's and Stokes' Theorems. *Fall. (E)*
- MATH 495 PRINCIPLES OF ANALYSIS I** 3
Prereq.: MATH 221 and 366. An introduction to functions of a real variable and their properties. Rigorous study of the real number system, topological properties of the real line, Cauchy sequences, limit and continuity properties of a real variable, metric spaces. *Fall. (O)*

MEDICAL TECHNOLOGY

Biology Major — Specialization in Medical Technology only.

- MT 410 CLINICAL MICROBIOLOGY** 8
Includes all the isolation and identification of clinically significant bacteria from all types of clinical specimens. Also covered: parasitology, virology and mycology. Correlation of laboratory findings to disease states emphasized.
- MT 411 HEMATOLOGY** 5
Comprehensive study of the principles, procedures, special techniques and disease states of the cellular components of the blood. Includes hemostasis.
- MT 412 CLINICAL MICROSCOPY** 1
Principles of the diagnostic procedures for urine, spinal fluids, feces, gastric contents and other body fluids.
- MT 413 BLOOD BANKING AND IMMUNOHEMATOLOGY** 3
Study of human blood groups, compatibility testing, component therapy and their relation to transfusion. Emphasis is on problem solving.
- MT 414 CLINICAL CHEMISTRY** 8
The biochemical analysis of body fluids in health and disease, and the clinical application of test results.
- MT 415 IMMUNOLOGY AND SEROLOGY** 3
A study of the immune response in health and disease and the use of current techniques for the determination of antigen-antibody reactions.
- MT 416 SPECIAL TOPICS IN MEDICAL TECHNOLOGY** 2
Investigation of special medical technology subject and/or related topic.

MODERN LANGUAGE

- ML 408 TEACHING MODERN LANGUAGES IN THE SECONDARY SCHOOLS** 2
Prereq.: Permission of the department. Techniques and instructional material for teaching modern languages in secondary schools.

ML 429 SEMINAR IN MODERN LANGUAGE TEACHING 3
 Prereq.: Permission of the department. Theory and practice in teaching modern languages in elementary and secondary schools.

ML 492 TOPICS IN LANGUAGE TEACHING 1-3
 Prereq.: ML 408 or 429. Special aspects of language teaching, such as creative uses of the language laboratory and other special aids, individualizing language instruction, teaching of literature and culture in the schools, will be emphasized. Topics may vary from section to section. Course may be repeated, with different topics, for up to 6 credits.
Irregular.

MUSIC

*Fees are subject to change

MUS 101 PRACTICUM IN MUSIC EDUCATION 1
 Prereq.: Certification in Music Education declared. Overview of topics related to a career in music education. Includes case study analysis, discussion of issues in music education, observations and reflections on classroom teaching and rehearsals, and laboratory in music education technology. *Spring.*

MUS 109 FUNDAMENTALS OF MUSIC 3
 Music reading, ear-training and elementary music theory. *Mode 4*

MUS 110 INTRODUCTION TO MUSIC 3
 Survey of music of Western civilization from the Middle Ages through the 20th century. *Mode 4*

MUS 111 WORLD MUSIC 3
 Survey of music of the non-Western world and its role in these societies. *Mode 4*

MUS 112 COMPUTER APPLICATIONS TO MUSIC 3
 An exploration of music using computer technology. Includes music fundamentals, elementary principles of musical composition, and computer sound synthesis through the use of computers. *Mode 4*

MUS 113 HISTORY OF JAZZ 3
 A survey of the evolution of jazz from its origins in African-American, European and American ethnic styles through present models as illustrated through lectures, recordings and related readings. *Mode 4*

MUS 115 SIGHT SINGING I 1
 Development of sight-singing skills; diatonic major and minor materials. Open only to Music majors. *Fall.*

MUS 116 SIGHT SINGING II 1
 Prereq.: MUS 115. Continued development of diatonic major and minor sightsinging skills. Introduction to chromatic materials. *Spring.*

MUS 121 MUSICIANSHIP I 3
 Basic properties of music with emphasis on melodic materials; study includes stylistic analysis, composition, two- and three-part counterpoint and melodic dictation. Open only to Music majors. *Fall.*

MUS 122 MUSICIANSHIP II 3
 Prereq.: MUS 121 or equivalent. Homophonic texture and diatonic harmonic relations, form and analysis, harmonic dictation. Open only to Music majors. *Spring.*

MUS 140 ENSEMBLE 1
 Prereq.: Permission of instructor. Study and performance for ensembles for various combinations. May be repeated for credit with different content. This course does not satisfy ensemble degree requirements for Music majors *Mode 4*

MUS 141 CHORUS 1
 Open to all students who enjoy singing. Various types of choral works are performed. Different choral literature is studied each semester. May be repeated for credit with different course content.
Mode 4

MUS 142 BAND—WIND ENSEMBLE 1
 Open to all students who play band instruments. Various types of literature performed. Students must audition for Wind Ensemble. May be repeated for credit with different content. *Mode 4*

MUS 143 ORCHESTRA 1
 Open to all students who play orchestra instruments. Standard orchestral literature will be played. Course may be repeated. Combined credit in Music 140, 141, 142 and 143 is limited to 7 credits. *Mode 4*

MUS 144 MARCHING BAND 1
 Prereq.: Experience playing a wind or percussion instrument. Presentation of halftime shows at football games and performances at other special events. May be repeated for credit with different content. *Fall. Mode 4 or Area D*

MUS 170 THEORY OF MUSIC I 3
 Prereq.: MUS 109 or MUS 250 or equivalent. Basic materials of music: pitch, duration, intensity, timbre, envelope. Major-minor tonal systems: scales, keys, intervals, rhythmic studies, triads, melodic analysis and composition. Musicianship: sight-singing, ear-training, beat patterns, melodic dictation. *Fall. Mode 4*

MUS 177 APPLIED MUSIC 1
 Individual instrumental or vocal instruction in performance. *Open to non-majors by permission of the instructor. Fee: \$150 per semester*.*
Mode 4

MUS 178 APPLIED MUSIC-MAJORS 2
 Individual instrumental or vocal instruction in performance. *Open only to Music majors. Fee: \$200 per semester*.*

MUS 215 SIGHT SINGING III 1
 Prereq.: MUS 116. Continued development of diatonic and chromatic sightsinging skills. Introduction to modulatory materials. *Fall.*

MUS 216 SIGHTSINGING IV 1
 Prereq.: MUS 215. Continued development of diatonic and chromatic sightsinging skills. Expanded tonal and atonal materials. *Open to Music majors only. Spring.*

MUS 221 MUSICIANSHIP III 3
 Prereq.: MUS 122 or equivalent. Harmonic relations continued: chromatic and higher tertian harmony, form and analysis continued, basic principles of orchestration, harmonic dictation. Open only to Music majors. *Fall.*

MUS 222 MUSICIANSHIP IV 3
 Prereq.: MUS 221 or equivalent. Study of historical forms and contrapuntal techniques through analysis, composition and performance, continuation of orchestration study and ear-training. *Open only to Music majors. Spring.*

MUS 235 MUSIC HISTORY I 3
 Prereq.: MUS 110. Survey of the development of Western music in its historical context from ancient time through 1750. *Open to Music majors only. Spring.*

MUS 250 PIANO CLASS I 2
 Introduction to piano through the study of harmonic, melodic and rhythmic patterns. Elementary keyboard skills in sight-reading, transposition and melody harmonization. For students with no previous piano training. *Mode 4*

MUS 251	PIANO CLASS II	2		
	Prereq.: MUS 250 or equivalent skill and permission of instructor. Continuation of keyboard skills introduced in Music 250. Repertoire at level of Easy Classic to Moderns, Volume 17. <i>Mode 4</i>			
MUS 259	VOCAL METHODS	1		
	Methods and materials of class instruction in voice. <i>Open only to Music majors. Spring.</i>			
MUS 261	WOODWIND CLASS I	1		
	Beginning class instruction in woodwind instruments. <i>Open only to Music majors. Fall.</i>			
MUS 262	BRASS CLASS I	1		
	Beginning class instruction in brass instruments. <i>Open only to Music majors. Spring.</i>			
MUS 263	PERCUSSION CLASS	1		
	Class instruction in snare drum, tympani and related orchestral and band percussion instruments. <i>Open only to Music majors. Fall.</i>			
MUS 264	VOICE CLASS	2		
	Instruction in voice production and vocal techniques. Vocalizations for vowels, range, flexibility. Song repertoire for individual members. <i>Fall. Mode 4</i>			
MUS 267	STRING CLASS: VIOLIN AND VIOLA	1		
	Methods and materials of class instruction in violin and viola. <i>Open only to Music majors. Fall.</i>			
MUS 268	STRING CLASS: CELLO AND DOUBLE BASS	1		
	Methods and materials class instruction in cello and double bass. <i>Open only to Music majors.</i>			
MUS 270	THEORY OF MUSIC II	3		
	Prereq.: MUS 170 or equivalent. Two- and three-part polyphonic structures. Diatonic harmony: four-part chorale writing and analysis. Modal and pentatonic scale systems. Intermediate studies in pitch, duration, intensity, timbre, envelope. Musicianship: sight-singing, ear-training, melodic and harmonic dictation. <i>Spring. Mode 4</i>			
MUS 305	MUSIC FOR THE ELEMENTARY CLASSROOM TEACHER	3		
	Prereq.: MUS 109 or equivalent. Students may waive Music 109 by taking a simple Placement Test administered by the Music Department. Reinforcement of musical skills and elements. Study and application of classroom techniques and materials.			
MUS 310	MUSIC EDUCATION IN THE ELEMENTARY AND MIDDLE SCHOOLS	3		
	Organization, aims, methods and supervision of elementary and middle school programs. Materials and methods for teaching general music in the middle school. <i>Open only to Music Education majors. Fall.</i>			
MUS 315	VOCAL MUSIC IN THE SECONDARY SCHOOLS	3		
	Organization and aims of the secondary school vocal programs and choral organizations. Special problems of choral conducting and the selecting of choral materials. <i>Open only to Music majors. Music Education majors will select either Music 315 or 316. Fall.</i>			
MUS 316	INSTRUMENTAL MUSIC IN THE SECONDARY SCHOOLS	3		
	Organization and aims of the secondary school instrumental programs. Special problems of instrumental conducting and the selecting of instrumental materials. <i>Open only to Music majors. Music Education majors will select either Music 315 or 316. Fall.</i>			
MUS 335	MUSIC HISTORY II	3		
	Prereq.: MUS 170 or equivalent. Survey of the development of Western music in its historical context from 1750 to 1900. <i>Fall. Area C</i>			
MUS 350	PIANO CLASS III	2		
	Prereq.: MUS 251 or equivalent skill. Continuation of Music 251 with emphasis on keyboard skill. Harmonization of folk melodies, improvising to given chord pattern, sight-reading of community songs. By permission of instructor. <i>Fall. Mode 4</i>			
MUS 351	PIANO CLASS IV	2		
	Prereq.: MUS 350 or equivalent skill. Continuation of Music 350. Improvisation on more advanced level. Repertoire from various styles of piano literature. By permission of instructor. <i>Spring. Mode 4</i>			
MUS 361	WOODWIND CLASS II	1		
	Methods and materials of class instruction in woodwind instruments. <i>Irregular.</i>			
MUS 362	BRASS CLASS II	1		
	Prereq.: MUS 222 or equivalent. Development of skills in choral conducting and score reading. <i>Open only to Music majors. Fall.</i>			
MUS 363	JAZZ IMPROVISATION I	3		
	Prereq.: MUS 222 or permission of instructor. Performance study of the elements of jazz harmony and transcription of solos. Students will perform on their major instruments. <i>Fall.</i>			
MUS 364	JAZZ IMPROVISATION II	3		
	Prereq.: MUS 222 and 361 or permission of instructor. Performance study of the elements in the jazz idiom with emphasis on creative expression. The course will focus on the development of musical ideas while also giving the student a broad experience of styles and historical genres in the jazz idiom. <i>Spring.</i>			
MUS 365	JAZZ COMPOSING AND ARRANGING	2		
	Prereq.: MUS 222 or permission of instructor. Compositional and arranging techniques in the jazz idiom. Student will arrange and compose pieces for jazz ensemble. Student must be able to work independently. <i>Fall.</i>			
MUS 367	CHORAL CONDUCTING	1		
	Prereq.: MUS 222 or equivalent. Development of skills in choral conducting and score reading. <i>Open only to Music majors. Fall.</i>			
MUS 368	INSTRUMENTAL CONDUCTING	1		
	Prereq.: MUS 367. Development of skills in instrumental conducting, baton technique and score reading. <i>Open only to Music majors. Spring.</i>			
MUS 390	ORCHESTRATION	1		
	Prereq.: MUS 222 Techniques and principles of orchestration; both instrumental and vocal arranging. <i>Open only to Music majors. Fall.</i>			
MUS 395	COMPOSITION	2		
	Prereq.: MUS 222 or permission of instructor. Principles and techniques of music composition, geared to the mature musician; much independent work. <i>Open only to music majors. Spring.</i>			
MUS 400	PROJECT IN MUSIC	1-3		
	Individual study in an area of student's choice. May take the form of performance, composition, paper, etc. to be determined in consultation with a Music Department adviser. <i>Both semesters.</i>			
MUS 401	TOPICS IN MUSIC	1-3		
	Prereq.: Permission of instructor. Selected topics in music to include specialized areas not covered in regular course offerings. May be repeated with different topics for up to 6 credits. <i>Mode 4</i>			

MUS 421	PERFORMANCE PRACTICE	2
	Prereq.: MUS 222 or equivalent. Examination of contemporary sources from the Renaissance to the 20th century; student creates an authentic performance edition. <i>Open to Music majors only. Irregular.</i>	
MUS 430	MOZART AND HAYDN	3
	Prereq.: 9 credits in Music or permission of instructor. Historical and analytical study of the composers and selected works. <i>Irregular.</i>	
MUS 431	BEETHOVEN	3
	Prereq.: 9 credits in Music or permission of instructor. Historical and analytical study of the composer and selected works. <i>Irregular.</i>	
MUS 432	BACH AND HANDEL	3
	Prereq.: 9 credits in Music or permission of instructor. Historical and analytical study of the composers and selected works. <i>Irregular.</i>	
MUS 434	CHAMBER MUSIC	3
	Prereq.: 9 credits in Music or permission of instructor. Study of chamber music from the Baroque to the present; selected works of major composers in the medium. <i>Irregular.</i>	
MUS 435	MUSIC HISTORY III	3
	Prereq.: MUS 335. Historical and theoretical study of works by major 20th century composers and their compositional procedures. <i>Open to Music majors only. Spring.</i>	
MUS 436	CHORAL MUSIC	3
	Prereq.: 9 credits in Music or permission of instructor. Choral music from the Renaissance to the present; analysis of selected major works in the medium. <i>Irregular.</i>	
MUS 439	SYMPHONIC MUSIC	3
	Prereq.: 9 credits in Music or permission of instructor. Survey of representative works in the medium from the Baroque to the 20th century. <i>Irregular.</i>	
MUS 441	RESEARCH/BIBLIOGRAPHY SEMINAR IN MUSICOLOGY	1
	Prereq.: MUS 435 or equivalent. Examination of primary and secondary research sources and their application to modern musical scholarship. Representative research projects pursued. <i>Open to Music majors only. Irregular.</i>	
MUS 470	MUSICAL STRUCTURE AND STYLE	3
	Prereq.: Two semesters of undergraduate theory. A survey of the principles of music theory through analysis of representative forms from various style periods. Emphasis on aural awareness through melodic and harmonic dictation. <i>Irregular. Mode 4</i>	
MUS 495	ADVANCED COMPOSITION	2
	Prereq.: MUS 395 or permission of instructor. Continuation of Music 395. Principles and techniques of musical composition, emphasis on larger forms and independent work. <i>Irregular.</i>	

NURSING

NRSE 300	NURSING ASSESSMENT	4
	The health assessment course is designed to prepare the registered nurse with the theoretical knowledge and skills necessary to perform a comprehensive assessment. The emphasis will be on comprehensive history taking, interviewing and assessment techniques.	
NRSE 301	THEORETICAL FOUNDATIONS OF NURSING	3
	Introduction to the B.S.N. program philosophy, objectives and conceptual framework. Investigation of related nursing theories and their application to nursing practice. An examination of the concept of wellness, nursing process, leadership, teaching and learning as applied to individuals, families and communities.	

NRSE 302	PRE-CRISIS FAMILY AND COMMUNITY HEALTH	3
	Prereq.: NRSE 300, 301 and matriculation into the B.S.N. program. The development of nursing process related to individuals, families and communities in pre-crisis with emphasis on health promotion, health teaching, leadership, nursing theory and the implications of nursing research. Must be taken with NRSE 304 and 306.	
NRSE 303	INTRODUCTION TO NURSING RESEARCH	3
	Prereq.: NRSE 301 and matriculation into the B.S.N. program. Basic nursing research design and methodology. Preparation of the professional nurse to be a critical consumer of nursing research and to begin to apply basic nursing research findings to nursing practice.	
NRSE 304	PRACTICUM IN FAMILY AND COMMUNITY HEALTH	3
	Prereq.: NRSE 300, 301 and matriculation into the B.S.N. program. The application of nursing process to individuals, families and communities in pre-crisis settings with the emphasis on anticipatory guidance, health promotion, health teaching, the leadership role of the nurse and implications of nursing research. Must be taken with NRSE 302 and 306. Applications due by March 15 for fall semester or summer session and by October 15 for spring semester/Wintersession.	
NRSE 306	PROFESSIONAL TRANSITION IN FAMILY AND COMMUNITY HEALTH	3
	Prereq.: NRSE 300, 301 and matriculation into the B.S.N. program. Development and integration of the professional nursing role in relation to the concepts of wellness in a variety of health care delivery systems. Must be taken with NRSE 302 and 304.	
NRSE 401	TRENDS AND ISSUES	3
	Prereq.: NRSE 301 and matriculation into the B.S.N. program. An analysis and evaluation of trends and issues in health care delivery and nursing with emphasis on accountable professional behavior.	
NRSE 402	CRISES AND THEIR RESOLUTION IN FAMILY AND COMMUNITY HEALTH	3
	Prereq.: NRSE 303, 306 and permission of instructor. Theoretical analysis and synthesis of the concepts of nursing process with individuals, families and communities in crisis and post-crisis situations utilizing current theories and nursing research. Must be taken with NRSE 404 and 406.	
NRSE 404	ADVANCED PRACTICUM IN FAMILY AND COMMUNITY HEALTH	3
	Prereq.: NRSE 306 and permission of instructor. Application of the nursing process to individuals, families and communities in crisis and post-crisis situations with emphasis on analyzing and synthesizing all aspects of nursing practice in a variety of settings functioning in a leadership role, applying research findings and selecting appropriate principles of teaching in planning, implementation and evaluation of client care. Must be taken with NRSE 402 and 404. Applications due March 15 for fall or summer; October 15 for spring/Wintersession.	
NRSE 406	PROFESSIONAL NURSING PRACTICE	3
	Prereq.: NRSE 306 and permission of instructor. An analysis of change theory and role development in relation to professional practice in nursing. Must be taken with NRSE 402 and 406. Applications due by March 15 for fall semester or summer session and by October 15 for spring semester.	
NRSE 498	SPECIAL STUDIES IN NURSING	1-6
	Prereq.: NRSE 302, 303, 304, and permission of instructor. Individualized plan to aid the learner in attainment of professional goals. Plan may consist of directed study of reading, clinical experience, individual instruction, research or other appropriate activities.	

OFFICE SYSTEMS MANAGEMENT

OS 420 TOPICS IN OFFICE SYSTEMS MANAGEMENT 3
Advanced concepts and issues relative to office systems management. Content will vary according to changing technological office systems management developments. May be taken twice under different topics. *Fall. [c]*

PHILOSOPHY

PHIL 100 SEARCH IN PHILOSOPHY 3
An introduction to the techniques and perspectives of philosophical inquiry. Title and content may vary from section to section. *Mode 1*

PHIL 112 INTRODUCTION TO PHILOSOPHY 3
Introduction to the study of some significant philosophies, including problems such as metaphysics, theories of knowledge, and theories of value. *Mode 1*

PHIL 150 SOCRATES 3
Introduction to the life and philosophy of Socrates, especially as portrayed in Plato's early dialogues. Some attention to other commentators such as Aristophanes, Xenophon, Nietzsche and Kierkegaard. *Mode 1*

PHIL 220 INTRODUCTION TO LOGIC 3
Introduction to formal systems of deductive reasoning (Aristotelian syllogism, Venn diagrams, sentential and predicate logic), as well as non-deductive reasoning and the relations between logic and philosophy. *Mode 1*

PHIL 222 PHILOSOPHY AND GENDER 3
Prereq.: Three credits in Philosophy or permission of instructor. Study of attitudes to gender in the history of philosophy, discussion of recent and contemporary issues and texts, and an introduction to feminist thought. *Fall. (E) Mode 1*

PHIL 225 NATURE, MIND AND SCIENCE 3
Philosophical problems concerning matter, mind, cosmology, and evolution from ancient times to present. *Fall. Mode 1*

PHIL 230 ANCIENT GREEK PHILOSOPHY 3
Development of Greek philosophy from the pre-Socratics to Plato and Aristotle. *Fall. Mode 1*

PHIL 232 MEDIEVAL AND RENAISSANCE
PHILOSOPHY 3
Prereq.: PHIL 230. Development of European philosophy from the Middle Ages to the end of the 16th century. *Spring. (E) Modes 1 and 5*

PHIL 240 ETHICAL PROBLEMS IN BUSINESS 3
A critical examination (both practical and theoretical) of contemporary moral problems in business such as ethical investment, questionable foreign payments, disclosure, dumping, mergers, job discrimination, whistle-blowing and big and small business responsibilities and regulations. *Spring. Mode 1*

PHIL 242 ETHICAL PROBLEMS IN TECHNOLOGY 3
A critical examination (both practical and theoretical) of contemporary moral problems in technology ranging from modern farming and manufacturing technologies to recombinant DNA, nuclear, modern surgical and computer technologies. *Fall. Mode 1*

PHIL 243 PHILOSOPHY, SCIENCE AND
TECHNOLOGY 3
Prereq.: One course in natural science, computer science or technology; or permission of instructor. Philosophical problems in the history and theories of science and technology, including how science and technology provide knowledge about the world and transform it, and how they develop and relate to each other. *Spring. Mode 1*

PHIL 244 MORAL ISSUES 3
Prereq.: PHIL 112 or permission of instructor. A critical examination (both practical and theoretical) of issues arising in the private and public conduct of one's life. Typical issues for examination are abortion, violence, capital punishment and conflicts between personal values and professional duties. *Spring. Mode 1*

PHIL 248 PHILOSOPHY OF THE ARTS 3
Prereq.: One course in philosophy or permission of instructor. Philosophical analysis of some of the concepts used in identifying, describing and evaluating both works of art and aesthetic experience: expression, representation, form, content, interpretation. *Fall. (O) Modes 1 and 4*

PHIL 275 CHINESE PHILOSOPHY 3
A survey of Chinese philosophy from ancient times to the modern era, including early Confucianism and Taoism, Chinese Buddhist schools, Neo-Confucianism and China's reaction to Western thought. *Spring. (E) Modes 1 and 3 [I]*

PHIL 320 MODERN LOGIC 3
Prereq.: PHIL 220 or permission of instructor. Further study of sentential and predicate logic. The formal foundations of epistemology and metaphysics as applied to various philosophical problems such as logical paradoxes, and minds and machines. *Irregular. Mode 1*

PHIL 330 SEVENTEENTH AND EIGHTEENTH
CENTURY PHILOSOPHY 3
Prereq.: PHIL 112 or 230 or permission of instructor. Development of European philosophy from the end of the Renaissance to the end of the 18th century. *Fall. Mode 1*

PHIL 331 HELLENISTIC PHILOSOPHY 3
Prereq.: One course in philosophy. Survey of major movements in post-Aristotelian Greek philosophy, based on readings of leading proponents and critics of the Epicurean, Stoic, Skeptical and non-Platonic schools. *Spring. (O) Mode 1*

PHIL 332 19TH CENTURY PHILOSOPHY 3
Prereq.: PHIL 112 or 330 or permission of instructor. Study of major philosophical problems and trends during the 19th century. Reading and discussion of such philosophers as Hegel, Marx, Mill, Schopenhauer and Nietzsche. *Spring. (E) Mode 1 [I]*

PHIL 343 ENVIRONMENTAL ETHICS 3
A critical examination of ethical problems concerning how people treat the land, air, plants and animals. *Fall. Mode 1*

PHIL 344 HEALTH CARE ETHICS 3
Prereq.: PHIL 112 or 220 or permission of instructor. Study of ethical theories and principles as applied to topics such as professional-patient relationships, new reproductive technologies, maternal-fetal conflicts, AIDS, informed consent, and allocation of scarce health care resources. *Spring. Mode 1*

PHIL 345 PHILOSOPHY OF LIFE, DEATH AND DYING 3
Prereq.: PHIL 112 or 220 or permission of instructor. Moral, conceptual and metaphysical issues of life, death and dying. Topics include the meaning of life in view of the inevitability of death; the patient's right to know; the morality of suicide and euthanasia. *Fall. (O) Mode 1*

PHIL 346 ETHICAL THEORY 3
Prereq.: One previous course in philosophy. An examination of problems in theory about right and wrong, good and bad. *Spring. Mode 1*

PHIL 349 PHILOSOPHY OF LAW 3
The nature of law and of such correlative concepts as legal rights, obligations, responsibility and punishment. The logic of judicial reasoning. The relationship between law and morality. *Fall. (O) Modes 1 and 7*

PHIL 355	PHILOSOPHY OF RELIGION	3
Prereq.: PHIL 112 or 220 or permission of instructor. A philosophical examination of some of the major religious concepts, such as God, soul, immortality, faith, etc. <i>Spring. (O) Mode 1</i>		
PHIL 365	MARX AND HIS INTERPRETERS	3
Prereq.: PHIL 112 or 330 or permission of instructor. An examination of Marxism as a philosophy, including its place in the reactions to Hegelianism and the varying 20th century interpretations and developments of it as a tool for analysis of history, economics and society. Readings from the works of Marx will be included. <i>Irregular. Modes 1 and 7 [I]</i>		
PHIL 366	EXISTENTIALISM	3
Some of the important existentialists in the 19th and 20th centuries, focusing on questions concerning human existence, such as freedom, responsibility, anguish, interpersonal relationship and the meaning (or lack of meaning) of human existence itself. <i>Spring. Modes 1 and 3 [I]</i>		
PHIL 368	CONTEMPORARY EPISTEMOLOGY AND METAPHYSICS	3
Prereq.: PHIL 220 and 330, or permission of instructor. A study of relations between language, thought and reality by reference to the works of leading 20th century thinkers, both analytic and others. <i>Spring.</i>		
PHIL 376	BUDDHIST PHILOSOPHY	3
One previous philosophy course recommended. The principal variations of realized enlightenment (viz the Arhat, the Bodhisattva, and the Roshi) will constitute the focus of this examination of the origins and main lines of Buddhist thought as it arose in India and spread to northern and southern Asia. The ethical starting-point of Buddhist thought and its connections with ontology and epistemology will also be studied through introductory texts and readings in the principal Sutras. <i>Fall. Mode 1 [I]</i>		
PHIL 382	SPECIAL TOPICS IN PHILOSOPHY	3
Prereq.: One course in philosophy or permission of instructor. Study of various topics not dealt with in other philosophy courses. <i>Irregular. Mode 1</i>		
PHIL 400	SEMINAR IN PHILOSOPHY	3
Prereq.: PHIL 220 and 330, or permission of instructor. Study of selected topics as announced. <i>Spring.</i>		
PHIL 440	PROJECT IN APPLIED ETHICS	3
Prereq.: PHIL 220, 346 and six credits from PHIL 222, 240, 242, 244, 343, 345, 349. Research in applied ethics. May include a practicum. <i>Spring.</i>		
PHIL 492	INDEPENDENT STUDY	1-3
Prereq.: Permission of instructor. Individual research in selected topics. Open to any interested student who wishes to pursue a topics of special interest for which the student is qualified. <i>On request.</i>		

PHYSICAL EDUCATION

(See other courses under Recreation for students not majoring in Physical Education.)

PE 101	COACHING PERMIT: LEGAL LIABILITY AND SAFETY ASPECTS OF COACHING	1
This course is designed to acquaint the student with a background in legal liability with specific reference to negligence, due process and product liability. <i>Summer.</i>		
PE 102	COACHING PERMIT: MEDICAL ASPECTS OF COACHING	1
This course is designed to acquaint the student with the medical aspects of coaching adolescents. Instruction will include the care of, prevention of and rehabilitation of athletic-related injuries. <i>Summer.</i>		

PE 103	COACHING PERMIT: PRINCIPLES AND PRACTICES OF COACHING	1
This course is designed to acquaint the student with the aspects of coaching which deal with the values of athletics in education, ethics, public relations, motivation, aggression and violence, anxiety and stress, and practice sessions. <i>Summer.</i>		
PE 110	CONCEPTS IN PHYSICAL FITNESS	2
Examines the general concepts of health-related physical fitness in a lecture-laboratory setting. <i>Open to all students. Area C</i>		
PE 111	ORIENTATION TO PHYSICAL EDUCATION	1
Examines the history and present status of the profession. Allied fields are reviewed. The course serves a guidance and advisement function.		

Activity Courses—open to majors only

		Credits
PE 170	PHYSICAL FITNESS	1
PE 171	WEIGHT TRAINING	1
PE 173	BASKETBALL	1
PE 174	SWIMMING	1
PE 175	TRACK AND FIELD	1
PE 180	CARDIOPULMONARY RESUSCITATION	1
PE 271	VOLLEYBALL	1
PE 273	TUMBLING	1
PE 274	GYMNASTICS	1
PE 370	TENNIS	1
PE 371	BADMINTON	1
PE 372	MOVEMENT FUNDAMENTALS	1
PE 374	SOCCER	1
PE 210	PERSONAL AND COMMUNITY HEALTH	2
Prereq.: BIO 111. Individual health problems of college students as well as optimum health patterns for the school, community and home. <i>Area C</i>		
PE 213	ANATOMY IN PHYSICAL EDUCATION	3
Prereq.: BIO 111. Study of structure and function of human body with emphasis upon skeletal, muscular, nervous and respiratory systems as applied to P.E. activities. <i>Area C</i>		
PE 214	PHYSIOLOGY IN PHYSICAL EDUCATION	3
Prereq.: PE 213, CHEM 111. Study of the function of the human body with emphasis on the muscular, circulatory, respiratory and nervous systems as applied to physical education activities.		
PE 215	PHYSIOLOGICAL ASPECTS OF THE HUMAN PERFORMANCE OF THE AGING	3
This course will stress the physiological responses by exercise and the physiological rationale for lifelong physical activities for the aged.		
PE 216	KINESIOLOGY	3
Prereq.: PE 213, 214, PHYS 111. Analysis and application of principles of mechanics as they relate to motor skills in physical education.		

- PE 217 CARE AND TREATMENT OF ATHLETIC INJURIES 3
Prereq.: PE 213. Prevention and treatment of athletic injuries with opportunity for practical application in prevention/protective strapping, acute injury care, fitting of protective equipment, and devising special padding. Course includes a 50-clock hour observation.
- PE 218 SCIENTIFIC BASIS FOR ATHLETIC TRAINING 3
Prereq.: PE 217. Orthopedic evaluation of athletic injuries, pre-season screening, and mechanisms of athletic injuries will be studied, as well as the psychology of injury, and the effectiveness of athletics on the pre-adolescent athlete. *Spring (E)*.
- PE 301 RHYTHMICS IN THE ELEMENTARY SCHOOL 3
The use of music in all aspects of the elementary school physical education program. Simple instruments such as tom-tom, bongo drum and lummi sticks are used. *Spring*.
- PE 303 FIRST AID 1
Theory and practice of first aid in school and community is presented. Persons who qualify may receive American Red Cross certificates. *Area C*
- PE 304 SECONDARY METHODS IN PHYSICAL EDUCATION 3
Prereq.: Admission into the Professional Program of Teacher Education. Curricular content of physical education for secondary teaching is discussed and analyzed. Methods and techniques of teaching are presented and opportunities for teaching provided. Course is a prerequisite to student teaching. *Open only to Physical Education majors*.
- PE 305 EVALUATION IN PHYSICAL EDUCATION 3
Prereq.: STAT 104 and admission to the program. Measurements in health and physical education. Emphasis on modern tests of physical fitness, skills, knowledge and general motor ability.
- PE 306 RECREATION AND THE AGING PROCESS 3
A study of the needs of the aged as applied to the provisions of recreational services in community and institutional settings. This course will provide methodology in one-to-one and group methods in leisure, fitness or health services for the aging.
- PE 307 HUMAN NUTRITION 3
Principles and concepts of normal human nutrition applied to various stages in life and activities especially as they relate to health promotion and weight control. Motivational skills for fitness; adherence to healthy nutrition; and strategies for evaluating health and fitness claims will be discussed. *Open only to Physical Education majors*.
- PE 314 BASEBALL OFFICIATING 2
Rules and techniques of officiating interscholastic and intercollegiate baseball. The course includes field experience and classroom lecture. *Fall*.
- PE 315 PRACTICUM IN ATHLETIC TRAINING I 3
Prereq.: PE 217 or permission of instructor. Provides 300 clock hours of supervised experience. Students will gain practical experience by rendering basic first aid, preparing teams for competition, and maintaining the athletic training room. *Open only to Athletic Training students*.
- PE 316 PRACTICUM IN ATHLETIC TRAINING II 3
Prereq.: PE 217, 315 and permission of instructor. A second 300-clock hour supervised experience. Student will have the opportunity to evaluate athletic injuries, establish treatment plans, carry out rehabilitation programs, assume leadership roles, and maintain injury records.
- PE 317 THERAPEUTICS IN ATHLETIC TRAINING 3
Prereq.: PE 217. Introduction to the theories and techniques of manual muscle testing, flexibility testing, rehabilitation, and conditioning programs. Theories of strength development including isokinetic techniques. *Fall*.
- PE 332 PSYCHOLOGICAL ASPECTS OF SPORT 3
Psychological aspects of sport participation are reviewed with emphasis on coach and player issues. Topics will include "burn out," stress management, arousal, motivation. Course aims to broaden student background in these topics and the interpersonal relationships between coaches and players at the adolescent and youth sport levels. Majors and concentrates in Physical Education only. *Spring*.
- PE 333 COACHING FOOTBALL 2
Football theory and practice, details of each position, training and managing, techniques of developing offensive and defensive tactics and comparisons of various systems. *Fall*.
- PE 334 COACHING BASKETBALL 2
Coaching and training of basketball teams, fundamentals of passing, dribbling, pivoting and shooting; psychology of game and various methods of defense and offense. *Fall*.
- PE 335 COACHING BASEBALL 2
Techniques of batting, pitching, how to play various positions and strategy of the game. *Spring*.
- PE 341 PRACTICUM IN ATHLETIC COACHING 3
Prereq.: PE 332. Provides a 150-clock hour practical experience in athletic coaching under the supervision of an established public school coach. Practical application of material learned in the classroom is emphasized.
- PE 355 COACHING GYMNASTICS: APPARATUS 1
Techniques of coaching apparatus events in gymnastics.
- PE 356 COACHING GYMNASTICS: TUMBLING 1
Techniques of coaching tumbling events in gymnastics.
- PE 357 COACHING SOCCER 1
Tactics and strategies in coaching interscholastic soccer.
- PE 359 COACHING SWIMMING AND DIVING 1
Tactics and strategies in coaching interscholastic swimming and diving.
- PE 361 COACHING TRACK: JUMPING EVENTS 1
Tactics and strategies in coaching interscholastic track.
- PE 362 COACHING TRACK: RUNNING EVENTS 1
Tactics and strategies in coaching interscholastic track.
- PE 363 COACHING TRACK: WEIGHT EVENTS 1
Tactics and strategies in coaching interscholastic track.
- PE 400 GRADED CARDIAC EXERCISE TESTING 3
Prereq.: Permission of instructor. Provides and opportunity to study theories, concepts, procedures and techniques necessary for a cardiologist exercise specialist. Basic understandings of exercise prescription, community programs, intervention and rehabilitation, and cardiac exercise programs will be emphasized. *Majors in Physical Education and Health Fitness only*.
- PE 401 IMPLEMENTATION AND EVALUATION OF HEALTH FITNESS PROGRAMS 3
Prereq.: PE 404, 400. The development and implementation of health/fitness programs in schools, business and community agencies. Organization and administration of health/fitness programs including the key components of exercise, weight control, nutrition, stress management and low-back pain. *Majors in Physical Education and Health Fitness only. Fall (E)*.

PE 402 ORGANIZATION AND ADMINISTRATION OF PE 3
 Prereq.: Admission into the Professional Program of Teacher Education. Administrative procedures involved in conducting physical education activities, arranging programs, providing facilities and handling staff-class details, finance, publicity, interscholastic and intramural activities.

PE 403 METHODS IN PHYSICAL EDUCATION FOR THE AGING 3
 An examination of appropriate activities and methods of teaching physical education for the elderly.

PE 404 EXERCISE PHYSIOLOGY 3
 Prereq.: PE 213, 214. The physiological factors which affect human performance in physical education and athletics will be studied. The acute and chronic effects of exercise on the respiratory, circulatory and muscular systems will be emphasized. *Majors in Physical Education and Health Fitness Studies only. Fall and Spring.*

PE 405 ELEMENTARY METHODS IN PHYSICAL EDUCATION 2
 Prereq.: PE 372 and admission to Professional Program in Teacher Education. Application of the child-centered, problem-solving approach as a method to learning fundamental concepts of movement. Discussion observation and laboratory experience will provide theoretical background. *Majors in Physical Education program (B.S.Ed.) only. Fall and Spring.*

PE 406 ADAPTED PHYSICAL EDUCATION 3
 Prereq.: PE 213, 214, 305, and 372. Teaching strategies for coping with individual differences. Emphasis on assessment, programming, developmental and/or prescriptive teaching of all exceptionalities.

PE 407 HUMAN PERSPECTIVES IN SPORT 3
 Prereq.: Senior or graduate status. This course offers students an opportunity to inquire into the nature and expression of man in sport. Topics include the issue of competition and winning, Amateurism vs. Professionalism, the values of sport, causes and results of spectator mania. *Spring.*

PE 420 PERCEPTUAL AND MOTOR DEVELOPMENT 3
 Prereq.: PSY 235, PE 213, 214, 305, and 372. Surveys the information concerning motor learning for the young learner. Special emphasis upon perceptual-motor learning and development of task analysis. *Fall.*

PE 422 MOTOR LEARNING 3
 Prereq.: PSY 235, PE 213, 214, 305 and 372. Examines the principles of motor learning which affect skill acquisition on the part of the secondary and post-secondary school learners. *Spring.*

PE 440 THERAPEUTIC MODALITIES IN ATHLETIC TRAINING 3
 Prereq.: PE 217, and 218 or 317. Study of the effects of therapeutic modalities on athletic injuries. Topics include pain and its control, modality principles, indications and contradictions. Emphasis on safe operation and application of modalities, manual therapy, and foot biomechanics. *Spring (O).*

PE 443 PRACTICUM IN EXERCISE COUNSELING 3
 Prereq.: PE 171, 213, 404, 400. Provides an opportunity for students to gain 150 clock hours of field experience in the Health Fitness Lab conducting prescribed exercise programs, usually for therapeutic and convalescent purposes. *Majors in Physical Education or Health Fitness Studies only. Fall and Spring.*

PE 444 INTERNSHIP IN HEALTH FITNESS 6
 Prereq.: PE 443, admission to program. An eight-week period of time during the senior year will be spend in a corporate fitness or com-

mercial fitness establishment where the student will demonstrate his/her ability to conduct a fitness/exercise program. *Majors in Physical Education or Health Fitness Studies only. Fall and Spring.*

PE 455 INTERNSHIP IN ATHLETIC TRAINING 6
 Prereq.: PE 315, 316 and admission to the Professional Program, or permission of instructor. Internship under ATC supervision in either a public school, college/university training room, or sports medicine setting.

PE 490 INDEPENDENT STUDY IN PHYSICAL EDUCATION 1-3
 Prereq.: Senior or graduate standing and permission of department chairperson. Reading and research in approved topics under the guidance of a member of the department. May be repeated for a total of 3 credits.

PHYSICS

PHYS 111 INTRODUCTORY PHYSICS I 3
 For students who do not plan to major or minor in science. Includes study of selected topics from mechanics, heat, electricity and light and modern physics. Not open to students who have received credit for SCI 115. Two lectures and one two-hour laboratory per week. *Mode 8*

PHYS 113 THE SOUND OF MUSIC 3
 An introductory course covering the physical basis of music, sources of sound, transmission and detection of sound waves, characteristics of sensation of sound and their physical correspondents, and general consideration of architectural acoustics. Two lectures and one two-hour laboratory per week. *Spring. Mode 8*

PHYS 115 PHYSICS OF SAILING 3
 Physical principles which find application in sailing will be studied. Selected readings, discussions, classroom demonstrations, field investigations with models and demonstrations on board sailboats. Two lectures and one two-hour laboratory per week. *Mode 8*

PHYS 121 GENERAL PHYSICS I 4
 Prereq.: MATH 121 or 125 (may be taken concurrently). Fundamental principles of mechanics and properties of matter; heat and sound. Three lectures and one three-hour laboratory each week. *Mode 8*

PHYS 122 GENERAL PHYSICS II 4
 Prereq.: PHYS 121. A continuation of PHYS 121; electricity — DC and AC, magnetism, optics and atomic phenomena. Three lectures and one three-hour laboratory per week. *Mode 8*

PHYS 125 UNIVERSITY PHYSICS I 4
 Prereq.: MATH 122 (may be taken concurrently). An introductory course for science/engineering students which uses calculus. Fundamental principles of mechanics, heat and sound. Three lectures and one three-hour laboratory per week. Credit not given to students who have had PHYS 121. *Mode 8*

PHYS 126 UNIVERSITY PHYSICS II 4
 Prereq.: PHYS 125. Continuation of PHYS 125. The study of electricity, magnetism and optics. Three lectures and one three-hour laboratory per week. *Mode 8*

PHYS 202 INTRODUCTION TO MATHEMATICAL PHYSICS 3
 Prereq.: MATH 222. Specific applications of differential and integral calculus and vector analysis in various coordinate systems to physical problems in the fields of mechanics, optics, thermodynamics, electromagnetics and quantum mechanics.

- PHYS 220 MECHANICS I 3
Prereq.: PHYS 122 or 126, MATH 222 (may be taken concurrently). Vector formulation of kinematics and dynamics of particles and rigid bodies. Topics include Newton's laws, momentum, energy, moving coordinate systems, central force motion and the harmonic oscillator. *Spring.*
- PHYS 225 OPTICS 4
Prereq.: PHYS 122 or 126, MATH 221 (may be taken concurrently). A study of geometrical and physical optics. Topics include lens and mirror theories and applications, interference and diffraction phenomena including holography, and polarization. Matrix methods are employed where applicable. Three lectures and one three-hour laboratory per week. *Fall.*
- PHYS 250 INTERMEDIATE LAB I 1
Prereq.: PHYS 125, 126 and 220 or 320 (may be taken concurrently). A laboratory course with experiments performed in mechanics, heat and thermodynamics. One three-hour laboratory per week. *Spring.*
- PHYS 305 FOUNDATIONS OF ELECTRICITY AND MAGNETISM 3
Prereq.: PHYS 220 and MATH 222. Electrostatics, circuit theory, electromagnetic fields of steady and alternating currents, solutions of Laplace's equation, Maxwell's equations and propagation of electromagnetic waves. *Fall.*
- PHYS 320 HEAT AND THERMODYNAMICS 3
Prereq.: PHYS 122 or 126, MATH 222. Nature and measurement of heat, thermoproperties of matter, thermodynamic processes and introductory statistical mechanics. *Fall.*
- PHYS 331 ELECTRONICS I 3
Prereq.: PHYS 122 or 126, MATH 221 (may be taken concurrently). A unified treatment of solid state devices and their applications in filters, regulators, power supplies, oscillators, amplifiers and control devices. An introduction to digital circuits such as logic gates. Two lectures and one three-hour laboratory period per week. *Fall.*
- PHYS 332 ELECTRONICS II 3
Prereq.: PHYS 331. A continuation of PHYS 331. Digital circuitry including flipflops, counters, ADC and DAC, shift registers, microprocessor architecture, instruction set, addressing and interfacing. Two lectures and one three-hour laboratory per week. *Spring (E).*
- PHYS 338 DIGITAL SYSTEMS LABORATORY 1
Prereq.: CS 376 (may be taken concurrently). Laboratory experiments and designs that lead to understanding of concepts of digital systems, using logical and sequential networks. One three-hour lab per week.
- PHYS 339 COMPUTER ELECTRONICS I 4
Prereq.: MATH 122 and junior standing. A study of basic electrical elements leading to an understanding of analog and digital circuits used in computers. For computer science, physical science and life science majors. Not open to students with credit for PHYS 331. Three lecture hours and one three-hour lab per week. *Fall. Mode 8*
- PHYS 340 COMPUTER ELECTRONICS II 4
Prereq.: PHYS 339. The investigation of microprocessor devices, architecture, instruction set, addressing and interfacing. Experimentation with microcomputer systems and peripherals. Three lecture hours and one three-hour laboratory per week. *Spring. Mode 8*
- PHYS 350 INTERMEDIATE LAB II 1
Prereq.: PHYS 305 or 425 (may be taken concurrently). A laboratory course with experiments in electrical measurements and modern physics (Planck's constant, charge to mass ratio of the electron, Millikan's oil drop experiment, etc.). One three-hour laboratory per week. *Fall.*
- PHYS 411 MECHANICS II 3
Prereq.: PHYS 220. Mechanics of continuous media, wave motion, special relativity and introduction to Lagrange's and Hamilton's equations. *Spring. (O)*
- PHYS 425 MODERN PHYSICS 3
Prereq.: PHYS 305. Special theory of relativity; quantum aspects of matter and of electromagnetic radiation, hydrogen atom, optical and X-ray spectra. *Fall.*
- PHYS 426 MODERN PHYSICS II 3
Prereq.: PHYS 425. PHYS of solid state, statistical mechanics, radioactivity, nuclear models and reactions, and introduction to particle physics. *Spring.*
- PHYS 442 ELECTROMAGNETICS 3
Prereq.: MATH 222, PHYS 305. Field theory of electromagnetism. Magnetic fields of current, magnetic materials, electromagnetic induction of Maxwell's Equations. *Fall. (O)*
- PHYS 450 ADVANCED LABORATORY 1
Prereq.: PHYS 331, 425. A study of the 400 kV Van de Graaf accelerator, particle detection electronics and a study of induced nuclear reactions. One three-hour laboratory per week. *Spring.*
- PHYS 452 INDEPENDENT STUDY IN PHYSICS 1
Prereq.: Approved plan of study by arrangement with supervising instructor and approval of Department chairperson. Special work in laboratory or theory to meet individual requirements in areas not covered by regular curriculum. May be taken more than one semester up to a limit of 4 credits.
- PHYS 470 QUANTUM MECHANICS 3
Prereq.: MATH 222, PHYS 425. Introduction to the mathematical and physical foundations of non-relativistic quantum theory. Emphasis will be on the operator formalism of quantum theory, the Heisenberg Uncertainty Principle, the relationship between classical and quantum descriptions and solutions to the Schrodinger equation. *Spring.*
- PHYS 480 STUDENT INTERNSHIP IN PHYSICS 3
Prereq.: Senior standing and permission of the student's adviser. Restricted to physics majors pursuing the B.A. degree. Students participating in the program will serve as interns obtaining outside industrial and/or research experiences in an environment directly related to their program. Before commencing work, a plan of the internship program must be approved by an Advisory Committee of Physics faculty members. *Either semester on demand.*
- PHYS 490 TOPICS IN PHYSICS 3
Selected studies in physics which are not offered presently in the curriculum of the department. Course may be repeated for different topics. No topic may be taken for credit more than once. *Irregular.*
- ## POLISH
- POL 111 ELEMENTARY POLISH I 3
Functional approach to grammar. Development of facility in speaking, understanding, reading Polish. Not open to students with one year of high school study. *Fall. Area B [I]*
- POL 112 ELEMENTARY POLISH II 3
Prereq.: POL 111 or equivalent. Functional approach to grammar. Development of facility in speaking, understanding, reading Polish. Continuation of Polish 111. *Spring. Area B [I]*
- POL 125 INTERMEDIATE POLISH I 3
Prereq.: One year of college Polish or equivalent. Principles of Polish structure are reviewed. Short stories and poems are read and dis-

cussed. Conversation and composition topics given to improve oral and written expression. *Fall. Area B [I]*

POL 126 INTERMEDIATE POLISH II 3
Prereq.: POL 125 or equivalent. Continuation of Polish 125. Further work in written and oral expression. *Spring. Area B [I]*

POLITICAL SCIENCE

PS 104 THE WORLD'S POLITICAL SYSTEMS 3
A comparative survey of the structures and functions of the national governments of selected industrialized and Third World nations, such as the U.S., Russia, Britain, France, India, Nigeria and Brazil. Scope and methods of political science and key policy issues will be treated in a comparative context. *Mode 7 [I]*

PS 110 AMERICAN NATIONAL GOVERNMENT 3
Structure, functions, services and problems of government and politics at the national level. Required of all majors. *Mode 7*

PS 230 AMERICAN STATE AND LOCAL GOVERNMENT 3
Organization and major problems of state and local government in the United States with attention to intergovernmental relations, federalism, and contemporary issues. *Mode 7*

PS 231 CONDUCT OF AMERICAN FOREIGN POLICY 3
Theories, processes and problems of American foreign policy and the craft of diplomacy, with special attention to contemporary issues. *Mode 7 [I]*

PS 232 ANCIENT AND MEDIEVAL POLITICAL THOUGHT 3
Political thought from Plato to Machiavelli. *Fall. Mode 7*

PS 235 INTERNATIONAL RELATIONS 3
Introduction to study of international relations, including international politics, international law and morality, international organization, international conflict and cooperation and the foreign policies of the major powers. *Mode 7 [I]*

PS 240 POLITICAL ORGANIZING 3
Prereq.: PS 104, 110, 230 or permission of instructor. Study of how to organize, develop and operate political campaigns and movements. Training in practical aspects of politics. Examination of federal and state laws affecting political activity, such as campaign financing and establishment of political action committees. Theories and techniques of mobilizing support, utilizing volunteers, developing media exposure and forming coalitions. *Irregular. Mode 7*

PS 241 WOMEN AND AMERICAN LAW 3
Examines the evolution of women's legal rights in the United States. Special attention given to the legal status of women in the economic, political, educational and judicial sectors of society. *Fall [E]. Mode 7*

PS 320 POLITICAL DEVELOPMENT IN AFRICA AND LATIN AMERICA 3
Prereq.: PS 104, 110 or permission of instructor. A survey of the process of political development and the impact of economic, social, historical and ideological factors in these two regions. Specific attention will be given to the application of the various models and theories of political development in the course. *Mode 7 [I]*

PS 330 AMERICAN PARTIES AND INTEREST GROUPS 3
Prereq.: PS 104, 110 or permission of instructor. Historical development and current operation of party organizations in the United States, with attention to voting behavior, interest and pressure groups, influence of news media, etc. *Mode 7*

PS 331 AMERICAN CONSTITUTIONAL LAW 3
Prereq.: PS 104 or 110. Great constitutional issues through the study of Supreme Court decisions. Origins of judicial review in *Marbury v. Madison* to current issues, exclusive of civil liberties. In addition to the traditional case approach, attention is given to a behavioral understanding of judicial decision making. *Mode 7*

PS 332 CIVIL LIBERTIES 3
Prereq.: PS 104 or 110. Constitutional safeguards of liberty and property. Special attention to privileges and immunities, equality and civil rights. *Mode 7*

PS 334 MODERN POLITICAL THOUGHT 3
Critical consideration is given to modern political thinkers, origins, developments and present significance. *Spring. Mode 7*

PS 336 WEST EUROPEAN GOVERNMENTS 3
Comparison of selected West European political systems, mainly in Britain, France and West Germany. Other countries may be included. *Mode 7 [I]*

PS 338 INTERNATIONAL ORGANIZATION 3
Basic assumptions, objectives, growth, problems and prospects of international organizations such as the League of Nations, the U.N. and its specialized agencies, the O.A.S. *Irregular. Mode 7 [I]*

PS 339 INTERNATIONAL LAW 3
Nature and functions of international law in the international community, in theory as well as in practice. *Mode 7 [I]*

PS 340 PUBLIC ADMINISTRATION 3
Prereq.: PS 104 or 110. A study of administrative theory and the politics of bureaucracy. Assigned readings, field projects and research papers. *Mode 7*

PS 343 POLITICAL LEADERSHIP 3
Prereq.: PS 104, 110 or instructor's permission. An analysis of political leadership and its role in the political process. *Mode 7*

PS 344 INTERPRETATION OF POLITICAL DATA 3
Prereq.: PS 104, 110 or permission of instructor. Basic introduction to computer applications in political science and use of computer and analytic skills in such areas as domestic and international politics, research, administration, policy studies and political campaigns. *Mode 7*

PS 345 INTERNATIONAL TERRORISM 3
An examination of definitions, history, philosophy and theories of international terrorism, as well as tactics and strategies of terrorist groups and responses of governments, with emphasis on policy alternatives and civil liberties dilemmas for democratic countries combatting terrorism. *Mode 7 [I]*

PS 380 CONFLICT AND NEGOTIATION 3
Prereq.: PS 104, 110 or permission of instructor. Forms of conflict between and within nations, such as war and revolution, of tactics (guerrilla warfare, terrorism, strikes and civil disobedience), and of conflict resolution (negotiation, diplomacy, arbitration, and bargaining) including both theory and case studies. *Mode 7 [I]*

PS 410 DEMOCRACY AND HUMAN RIGHTS 3
Prereq.: PS 104 or 110. Examination of the theory and practice of democracy, particularly in light of human rights requirements. The topics of freedom, political participation, and economic-social rights will be examined in light of various empirical and normative models of democracy, and specific country cases. *Spring. Mode 7 [I]*

PS 415 GOVERNMENT, BUSINESS AND PUBLIC POLICY 3
Prereq.: PS 104 or 110. Analysis of the pattern of interaction between business and government in the American administrative and political process, with attention to how we as members of society are affected by and may influence this process. *Spring. Mode 7*

PSYCHOLOGY

PSY 112 GENERAL PSYCHOLOGY I 3
Major areas involved, with emphasis on scientific methods and application to systematic study of human behavior. Required of all Psychology majors and concentrates in the B.A. and B.S. programs. *Mode 6*

PSY 164 GENERAL PSYCHOLOGY II 3
Prereq.: PSY 112. Intensive study in general psychology, in areas of sensation, perception, emotion, motivation and higher mental processes. Emphasis on current experimental work in these areas. *Spring. Mode 6*

PSY 200 LEARNING AND MEMORY 3
Prereq.: PSY 112. Introduction to theories, methods and research in the study of learning and memory including language and problem solving. *Mode 6*

PSY 221 RESEARCH METHODS IN PSYCHOLOGY I 3
Prereq.: PSY 112 and STAT 215. An introduction to research problems in psychology, with an emphasis on experimental designs which employ a single independent variable. Each student will plan an independent research project. Two-hour lecture and two-hour laboratory per week. Required for all Psychology majors. *Fall. [c]*

PSY 222 RESEARCH METHOD IN PSYCHOLOGY II 3
Prereq.: PSY 221. Controlled experiments are contrasted with non-experimental designs, such as naturalistic observation, surveys and field studies. Factorial, mixed and multivariate designs are discussed. Each student will complete the independent project proposed in PSY 221. Two hour lectures and two-hour laboratory per week. Required of all Psychology majors. *[c]*

PSY 235 CHILD AND ADOLESCENT DEVELOPMENT 3
Human development (physical, emotional, social and intellectual) from infancy through adolescence. Required of all Psychology majors. No credit given to students with credit for PSY 236. *Mode 6*

PSY 236 LIFE-SPAN DEVELOPMENT 3
Human development from conception through old age, considering physical, emotional, social and intellectual factors. No credit given to students with credit for PSY 235. *Mode 6*

PSY 237 APPLIED PSYCHOLOGY 3
Prereq.: PSY 112. Application of psychology to selected areas, such as marketing, management, consumer behavior and personal adjustment. *Mode 6*

PSY 240 THE PSYCHOLOGY OF POLITICS 3
Examining the process by which political behavior interacts with and influences individual psychological behavior. *Fall. Mode 6*

PSY 255 PSYCHOLOGY OF LEARNING
(ELEMENTARY) 3
Prereq.: PSY 235. Introduction to psychology of learning for the elementary school teacher. Not open to students who have had or are taking ELED 255.

PSY 281 COGNITIVE PSYCHOLOGY 3
Prereq.: PSY 112. Overview of current theory concerning the processing of information by the human mind. Emphasis placed on relevant contributions from the areas of perception, memory, language and thinking. *Fall. Mode 6*

NOTE: FOR 300- TO 400-LEVEL COURSES BELOW — JUNIOR STANDING IS RECOMMENDED FOR 300-LEVEL COURSES; JUNIOR OR SENIOR STANDING IS REQUIRED FOR 400-LEVEL COURSES.

PSY 330 ABNORMAL PSYCHOLOGY 3
Prereq.: PSY 112 and one other Psychology course. Symptoms, causes and treatment of deviate behavior, anxiety disorders, psychoses, personality disorders, substance abuse disorders.

PSY 342 SENSATION AND PERCEPTION 3
Prereq.: One laboratory course in Biological Sciences and two courses in Psychology. Study of the physiological, psychophysical, and psychological processes through which organisms interact with the environment. *Fall.*

PSY 351 PSYCHOLOGICAL EVALUATION 3
Prereq.: Three courses in Psychology. Principles and problems basic to construction, choice and use of psychological measuring instruments, and study of application to diagnosis. *Fall.*

PSY 362 CHILD PSYCHOLOGY 3
Prereq.: PSY 235 or 236. Advanced study in developmental psychology through the childhood years. Emphasis on topics in the areas of social, emotional, personality, and cognitive development.

PSY 363 ADOLESCENT PSYCHOLOGY 3
Prereq.: PSY 235 or 236. Research studies pertaining to adolescence, with special emphasis on psychological development and problems characteristic of the age. *Mode 6*

PSY 365 PSYCHOLOGY OF THE EXCEPTIONAL CHILD 3
Prereq.: PSY 235 or 236 or equivalent. Psychological characteristics of exceptional children (gifted, retarded, emotionally disturbed, physically handicapped, etc.) with emphasis on implications of these characteristics for classroom procedures. *Mode 6*

PSY 372 SOCIAL PSYCHOLOGY 3
Prereq.: Two courses in Psychology. Influence of social factors on behavior, cognition and emotions of individuals. Analysis of methods of research in social setting.

PSY 385 HUMANISTIC PSYCHOLOGY 3
Prereq.: Two courses in Psychology. A study of humanistic approaches to the understanding of behavior. Focus is on the healthy personality and its potential for self-actualization.

PSY 390 HUMAN BEHAVIOR AND SEXUALITY 3
A scientific study of human behavior with regard to the sexuality of man and woman in husband-wife, parent-child, peer group relationships, etc. Discussions and readings to include the meaning of human sexuality in areas such as birth control, planned parenthood, premarital sex, the double standard, utilizing an inter-disciplinary approach such as psychology, sociology, science and off-campus professional resource people (physicians, psychiatrists, clergy, attorneys). *Spring. Mode 6*

PSY 428 PSYCHOLOGY OF ADULTHOOD 3
Prereq.: PSY 235 or 236. A study of behavior dynamics and developmental processes from early adulthood through old age and death. *Mode 6*

PSY 429 PSYCHOLOGY OF AGING 3
An examination of the normal changes in human behavior that occur with biological, cognitive and psychological aging. Course work includes observation in a local facility for elderly persons.

PSY 430 PSYCHOLOGY OF MINORITY GROUPS 3
Prereq.: PSY 112 or permission of instructor. Review of psychological research and theories pertaining to the study of minority groups. Implications for clinical work and community education will be discussed. *Spring. Mode 6*

PSY 435	ORGANIZATION AND PERSONNEL PSYCHOLOGY	3
	A consideration of structure, problems, human behavior and personnel functions in various types of organizations. <i>Mode 6</i>	
PSY 440	MOTIVATION	3
	Prereq.: Three courses in Psychology. Physiological and psychological variables in selected motivational processes. Problems of measurement, empirical findings and theoretical research. Selected readings in contemporary literature.	
PSY 446	INTRODUCTION TO THE PSYCHOLOGY OF COUNSELING	3
	Prereq.: Three courses in Psychology. An introduction to the basic assumptions and theoretical approaches in the counseling process. Students wishing to become trained as counselors are advised to contact the Department of Counselor Education and Human Services. <i>Irregular.</i>	
PSY 448	PSYCHOLOGY OF WOMEN	3
	A review of research and theories pertaining to the psychology of women. The dynamic aspects of being female in the development of cognitive, emotional, motivational and social behavior is emphasized. Psycho-social implications and consequences of changing sex roles will be examined. <i>Mode 6</i>	
PSY 450	PHYSIOLOGICAL PSYCHOLOGY	3
	Prereq.: One laboratory course in biological sciences and two courses in Psychology. Analysis of relationships between bodily processes and behavior. <i>Fall.</i>	
PSY 454	DRUGS AND BEHAVIOR	3
	Prereq.: PSY 112. Overview of the major classes of psychoactive drugs and their effect on the brain and behavior. Legal drugs such as alcohol and caffeine and illegal drugs are considered. <i>Fall. Mode 6</i>	
PSY 460	BEHAVIOR MODIFICATION: THEORY AND PRACTICE	3
	Prereq.: PSY 200 or permission of instructor. Application of learning principles to the modification of both normal and abnormal behavior. The settings for application include areas such as personal, social and marriage counseling; individual and group psychotherapy; formal and informal education and reeducation; personal, vocational and correctional rehabilitation.	
PSY 462	PSYCHOLOGY OF EARLY CHILDHOOD	3
	Prereq.: PSY 235 or 236. Study and observation of young children (birth to age six), with emphasis on the development origins and dynamic processes of behavior within this age range.	
PSY 470	THEORIES OF PERSONALITY	3
	Prereq.: Three courses in psychology. Nature of personality theory and major contemporary theories of personality, including empirical evidence relevant to these theories.	
PSY 475	INTRODUCTION TO THEORY OF PSYCHOANALYSIS	3
	Prereq.: Two courses in psychology. A systematic study of Freudian and neo-Freudian psychodynamic theories of personality. <i>Irregular.</i>	
PSY 480	PSYCHOLOGY OF DYING AND DEATH	3
	Prereq.: PSY 112 or equivalent. Psychological issues of death, dying and suicide. Topics include death and denial, fear of death, grief and bereavement, child's and adolescent's view of death, psychological stages of dying and euthanasia. <i>Mode 6</i>	
PSY 490	HISTORY AND SYSTEMS OF PSYCHOLOGY	3
	Prereq.: PSY 112, three other courses in psychology and junior standing. Historical study with emphasis on general philosophical bases, development of psychology as an experimental science and comparative analysis of principal modes of psychological inquiry.	

PSY 496	INTERNSHIP IN PSYCHOLOGICAL APPLICATIONS	3
	Prereq.: Written permission of instructor. Supervised work in public and private agencies and institutions requiring the application of psychological principles. A study of appropriate references and a written report of procedures and conclusions required. May be repeated for a total of 6 credits.	
PSY 498	TOPICS IN PSYCHOLOGY	1-3
	Prereq.: Junior, senior or graduate standing or permission of instructor. Study of selected topics in psychology. Topics announced each semester. May be repeated with different topics for a total of 6 credits.	
PSY 499	INDEPENDENT READING AND RESEARCH IN PSYCHOLOGY	1-3
	Prereq.: Junior, senior or graduate standing and written permission of instructor. Directed independent studies in psychology. May be repeated for a total of 6 credits. <i>On request.</i>	

QUANTITATIVE ANALYSIS (See Statistics)

QA 201	BUSINESS STATISTICS	3
	Prereq.: STAT 104 Application of statistical analysis as used by the business administrator. Lab arranged.	
QA 420	QUANTITATIVE ANALYSIS FOR BUSINESS DECISIONS	3
	Prereq.: QA 201. The use of quantitative principles for decision making in business. Development of an understanding of the concepts and criteria for making decisions. Emphasis will be on the elements of statistical decision theory, and the use of linear relationships as they apply to production control, inventory control and other management decisions. Discussion will include the advantages and limitations of the quantitative techniques in current use in management situations.	
QA 305	PRODUCTION/OPERATIONS MANAGEMENT	3
	Prereq.: QA 201, MGT 301. Basic principles of productive systems and the analytical techniques which are required in the designing and continual operation of productive systems. Emphasis will be placed upon how these basic principles can be applied to production (manufacturing) and also to service-type industries.	
QA 425	BUSINESS SIMULATION ANALYSIS	3
	Prereq.: MIS 201 and MGT 301. Development, application and evaluation of computer-based decision systems. PERT and CPM network analysis. Simulation as a research and decision-making tool. The use of one of the simulation languages in conjunction with a digital computer.	

READING

RDG 140	READING EFFICIENCY	3
	Student's reading is analyzed and training is provided to improve vocabulary, comprehension and rate. Study skills needed in college work are given attention. <i>Area C</i>	
RDG 200	DEVELOPMENTAL READING IN ELEMENTARY SCHOOL	3
	Prereq.: PSY 235. Physiological and psychological aspects of reading materials and methods applicable for group and individual instruction in Grades 1 through 6.	
RDG 330	TEACHING LANGUAGE ARTS	3
	Prereq.: RDG 200. Developmental aspects of language activity in listening, speaking, writing and reading areas of communication in elementary school. Attention to methods and materials which enhance classroom procedures in language arts.	

RDG 440 TEACHING READING IN SECONDARY SCHOOL 3
Materials and methods of systematic learning of reading skills through Grade 12.

RECREATION

(Physical Education/Health Fitness)

Students in majors other than Physical Education must take 2 credit hours from the following:

General Activity Courses—open to all students Credits
REC 120-233 are Area D courses.

REC 120	PHYSICAL FITNESS ACTIVITIES	1
REC 121	CYCLING	1
REC 124	DOWNHILL SKIING	1
REC 141	VOLLEYBALL	1
REC 142	SOFTBALL	1
REC 159	TRAMPOLINING	1
REC 160	RACQUETBALL	1
REC 162	BADMINTON	1
REC 163	BOWLING	1
REC 164	FENCING	1
REC 166	TENNIS	1
REC 168	WEIGHT TRAINING	1
REC 169	GOLF	1
REC 200	BEGINNING SWIMMING	1
REC 230	INTERMEDIATE SWIMMING	1
REC 232	LIFEGUARD TRAINING	2
REC 233	WATER SAFETY INSTRUCTOR'S COURSE	2

Prereq.: Current Senior Life Saving Certificate.

RELIGIOUS STUDIES

REL 105 DEVELOPMENT OF CHRISTIAN THOUGHT 3
A critical survey of the central, formative ideas of Christian thought and their development from New Testament times to the present. *Fall. (E) Mode 1*

REL 110 WORLD RELIGIONS 3
An investigation of the essence of religion, the variety of religious phenomena and systems, and various approaches to the study of religion. *Mode 1 [I]*

REL 357 SPECIAL TOPICS IN RELIGION 3-6
A study of selected topics in the religion to be announced. Students may not take this course under the same topic more than once. *Fall (O) Mode 1*

REL 492 INDEPENDENT STUDY 1-3
Prereq.: Permission of instructor. Individual research in selected topics. Open to any interested student who wishes to pursue a topic of special interest for which the student is qualified. *On demand.*

See also relevant courses offered in Anthropology, English, History and Philosophy.

RUSSIAN

RUS 111 ELEMENTARY RUSSIAN I 3
Elements of Russian linguistic structure. Facility in speaking and understanding the language is developed rapidly by the direct method. Not open to students with one year of high school study. *Fall. Area B [I]*

RUS 112 ELEMENTARY RUSSIAN II 3
Prereq.: RUS 111 or equivalent. Continued study of Russian linguistic structure with further practice in speaking and writing. Intensive and extensive reading. No credit will be given to students with previous credit for more advanced coursework in Russian except by permission of the department chairperson. *Spring. Area B [I]*

RUS 125 INTERMEDIATE RUSSIAN I 3
Prereq.: One year of college Russian or equivalent. Principles of Russian language structure reviewed. Short stories and plays are read and discussed. Conversation and composition based on topics of general interest are practiced as a means of improving oral and written expression. No credit will be given to students with previous credit for more advanced coursework in Russian except by permission of the department chairperson. *Fall. Area B [I]*

RUS 126 INTERMEDIATE RUSSIAN II 3
Prereq.: RUS 125 or equivalent. Continuation of Russian 125. No credit will be given to students with previous credit for more advanced course work in Russian except by permission of the department chairperson. *Spring. Area B [I]*

RUS 225 RUSSIAN COMPOSITION AND DICTION 3
Prereq.: RUS 126 or instructor's permission. Self-expression by means of frequent compositions in Russian; systematic drills in pronunciation and intonation. *Fall. Area B [I]*

RUS 226 RUSSIAN STRUCTURE AND IDIOM 3
Prereq.: RUS 225 or equivalent. Designed to develop correct idiomatic usage and fluency of expression. *Spring. Area B [I]*

RUS 305 LITERARY MASTERPIECES SINCE 1800 3
Prereq.: RUS 226 or equivalent. Introduction to major works in Russian literature since 1800. *Fall. Mode 3*

RUS 316 RUSSIAN CIVILIZATION 3
Prereq.: RUS 226 (may be taken concurrently) or equivalent or permission of instructor. Cultural development of Russia from the founding of the Kievan state to the present. *Spring (E). [I]*

RUS 441 ADVANCED ORAL PRACTICE I 3
Prereq.: Instructor's permission. Development of fluency in oral self expression. Speech analysis to improve pronunciation and intonation. *Fall. [I]*

RUS 442 ADVANCED ORAL PRACTICE II 3
Prereq.: RUS 441 or instructor's permission. Further practice in oral self-expression. *Spring. [I]*

SCIENCE AND SCIENCE EDUCATION

SCI 115 GENERAL PHYSICAL SCIENCE 3
An introduction to the basic principles of physics and chemistry. Two lectures and one two-hour laboratory a week. *Mode 8*

SCI 120 TOPICS IN THE NATURAL SCIENCES 3
An interdisciplinary, thematic approach to a major subject of current interest. The biological, chemical, earth and physical sciences aspects of the subject will be explored. For students not majoring, minoring or concentrating in the natural sciences. The specific topic to be taught in any semester will be listed and described in the registration materials for that semester. Courses may be repeated for different topics. *Fall. Mode 8*

SCI 412 LEARNING AND CURRICULUM STUDIES IN SCIENCE 2
Prereq.: BIO 211, ESCI 111 or any other Earth Science course. Materials of instruction and techniques of guiding children's understanding of environment.

SCI 417 TEACHING OF SCIENCE IN THE SECONDARY SCHOOL 2
 Problems related to such matters as science objectives and trends, curriculum materials, textbooks, equipment and visual aids. Discussion of teaching problems as they arise in student teaching.

SCI 418 TEACHING SCIENCE IN THE OUT-OF-DOORS 3
 Prereq.: Two science courses. Development of leadership skills and instructional techniques necessary for teaching science in the outdoor classroom. The methods and materials for developing and conducting an outdoor education program in science is discussed. Three hours a week; field studies are required. *Fall*.

SCI 420 HISTORY OF SCIENCE 3
 Prereq.: Three courses in science or mathematics. Historical development of biological and physical science, interdependence of various areas of science and relations of scientific progress to society.

SCI 425 SCIENCE AND MODERN THOUGHT 3
 A survey of the interaction of the natural sciences and other disciplines and the development of contemporary society. The treatment of scientific topics will be non-technical with emphasis placed on their cultural and intellectual aspects. *Irregular. Mode 8*

SCI 452 INDEPENDENT STUDY IN SCIENCE 1-3
 Prereq.: Approved plan of study by arrangement with the supervising instructor and approval of a department chairperson. Includes special work in the laboratory or study of theory to meet the individual requirements in areas not covered by the regular curriculum. May be taken for more than 1 credit up to a limit of 4 credits. *On request*.

SCI 453 ENVIRONMENTAL INTERPRETATION INTERNSHIP 3
 Prereq.: Prior completion of two field trips to environmental education facilities approved by advisory committee and senior standing. Responsible experiences in an environmental education facility. Before commencing the internship, a plan of the internship must be approved by the Advisory Committee on Environmental Interpretation. *Fall, Spring*.

SCI 485 STUDIES IN SCIENCE 1-3
 Prereq.: Permission of instructor. Selected studies in the sciences which are not offered presently in the curriculum of the science departments. Course may be repeated for different topics, but the student may not take this course for credit under the same topic more than once.

SOCIAL SCIENCES

SSCI 315 METHODS IN SOCIAL STUDIES FOR THE MIDDLE SCHOOL 3
 Open only to majors in Elementary Education. Introduction to the techniques of teaching the skills and concepts from the social science disciplines. *On demand*.

SSCI 420 TEACHING SOCIAL STUDIES IN SECONDARY SCHOOLS 2
 Prereq.: Acceptance as a major in Social Sciences or History and eligible for student teaching. Concepts, methods and materials for teaching social studies in secondary schools. *Fall, Spring*.

SOCIAL WORK

SW 100 SEARCH IN SOCIAL WORK 3
 Overview of the field of social work. Titles and themes may vary from section to section. Some field volunteer work required. *Mode 6*

SW 226 SOCIAL WELFARE POLICY AND SERVICES I 3
 Prereq.: SOC 110 and 111 or permission of instructor. Exploration of the historical background of social work and social welfare institutions in the United States and around the world; knowledge, values and practice skills that distinguish social work as a discipline. Field work required. *Fall*.

SW 227 HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT 3
 Prereq.: BIO 111 and PSY 235, or permission of instructor. Examination of individuals, families, and communities, taking an ecological perspective of the life span; various cultural, economic and ethnic factors that influence lives; application of social work values and how these relate to developmental tasks in a socio-political environment. Field work required.

SW 360 GENERALIST SOCIAL WORK PRACTICE WITH INDIVIDUALS AND FAMILIES 3
 Prereq.: SW 226, 227, and admission to Social Work major, or permission of instructor. Study of the delivery of direct service to individuals and families as they interact within groups and communities; tasks and skills necessary for a generalist social worker to empower clients to modify and change their situations. Field work required. *Fall*.

SW 361 GENERALIST SOCIAL WORK PRACTICE WITH SMALL GROUPS 3
 Prereq.: SW 226, 227, and admission to Social Work major; or permission of instructor. Use of the small group as a resource for delivering direct service in generalist social work practice; tasks and skills necessary for the social worker to use group process to empower clients. Field work required. *Spring*.

SW 362 GENERALIST SOCIAL WORK PRACTICE WITH FAMILIES, ORGANIZATIONS AND COMMUNITIES 3
 Prereq.: SW 226 and 227; SW 360 or SW 361 or permission of instructor. Interventions and strategies for assisting families, organizations, and communities in the context of generalist social work practice; tasks and skills necessary to bring about change in large systems. Field work required. *Fall*.

SW 426 SOCIAL WELFARE POLICY AND SERVICES II 3
 Prereq.: SW 226, 227, and six credits from SW 360, 361 or 362; or permission of instructor. Uses of policy analysis and planning as intervention strategies in generalist social work practice. Field work required. *Spring*.

SW 433 INDEPENDENT STUDIES IN SOCIAL WORK 3
 Prereq.: Senior standing in the Social Work major and permission of the instructor and department chairperson. Student must present a written study proposal to the department chairperson at least one week prior to registering for this course. Readings and research in selected areas of social work. Some volunteer work required. *On request*.

SW 435 FIELD PRACTICUM AND INTEGRATIVE SEMINAR 6
 Prereq.: All other requirements for the major must be completed except for SW 362 and 426 (may be taken concurrently); and permission of instructor. An opportunity for the student to apply social work theory. Students are expected to perform 14 hours per week of supervised practical experience in a social service setting. May be repeated for a total of 12 credits.

SW 436 HEALTH AND SOCIAL WORK 3
 Prereq.: SW 226 and 227; or permission of the instructor. Examination of health issues such as cancer, AIDS, Alzheimer's, and other disabilities; prevention, treatment and attitudes; policies and programs in both public and private sectors which impinge upon the lives of clients with health problems. *Irregular*.

SW 437 CHILD WELFARE I 3
Prereq.: SW 226 and 227; or permission of the instructor. Examination of the role of the social worker in meeting the needs and protecting the rights of children. *Irregular.*

SW 438 CHILD WELFARE II 3
Prereq.: SW 226 and 227; or permission of instructor. Examination of current social issues such as war, poverty, and divorce, that impact the lives of children. *Irregular.*

SW 478 CURRENT TOPICS IN SOCIAL WORK 3
Prereq.: Permission of instructor. Analysis and evaluation of special topics in the general field of social work. Topics will vary from year to year. If topics vary, may be taken more than once. *Irregular.*

SOCIOLOGY

SOC 110 INTRODUCTORY SOCIOLOGY 3
Major theoretical models and research methodologies used by sociologists in examining the institutions of societies and everyday lives of individuals. Topics include social stratification, ethnic relations, race, poverty, gender roles, aging, the family, population, and urban/suburban communities. *Mode 6*

SOC 111 SOCIAL PROBLEMS 3
Conditions or patterns of behavior that are considered to be harmful to society or its members, about which it is considered that something should be done. Included as possible topics are sexism, physical and mental health, drug and alcohol abuse, sexuality, inequality, discrimination, environmental problems and abuses of power. *Fall. Mode 6*

SOC 217 SOCIOLOGICAL THEORY 3
Prereq.: SOC 110. Exposure to works of Marx, Weber, Durkheim, Goffman, and selected other social theorists. Discussion of theories within their historical context. *Mode 6*

SOC 222 RESEARCH METHODS 3
Prereq.: SOC 110. Examines scientific method as used in sociology. Topics include inductive and deductive reasoning, quantitative and qualitative research designs, measurement, sampling, methods of data collection, and analysis strategies. *Mode 6*

SOC 225 SOCIAL STRATIFICATION 3
Examines forms of inequality and social stratification within societies; theories and research on social class and its consequences for ideology, opportunities, and health; interrelationships between social class and inequality by race, gender and age. *Mode 6*

SOC 231 MINORITIES AND SOCIAL INEQUALITY 3
Prereq.: SOC 110. Selected minority groups, their history, social and interactional patterns and position in the social structure of the United States. The nature of social inequality and its relationship to minority group status. *Fall. Mode 6*

SOC 232 CITIES AND URBAN LIFE STYLES 3
Prereq.: SOC 110. An examination of the development of preindustrial cities and how they differ from modern urban areas. Research on differences between suburban and urban life will be explored as well as contrasting lifestyles which coexist within urban areas. Post-World War II policies which helped to lead to many of today's problems will be identified and discussed. *Fall. Mode 7*

SOC 233 THE FAMILY 3
The family in its social context, including cross-cultural perspectives and theories of family structure and change. The contemporary American family and its emerging alternatives will be studied, with special reference to the family life cycle, and current issues in family studies. *Mode 6*

SOC 234 SOCIAL INTERACTION 3
Prereq.: SOC 110. Study of social behavior arising out of group contexts. Analysis of development and change of self-concepts and leading theories of social interaction. *Spring. Mode 6*

SOC 240 SEX ROLES AND SEXISM 3
Sociological and feminist perspectives on gender, sex roles and institutional sexism. Physiology versus sex-role socialization; gender and social institutions (family, poverty, rape and violence, health, crime and deviance, work, language and the media). Sexism as it affects men. The Women's Movement. *Irregular. Mode 6*

SOC 330 SOCIOLOGY OF RELIGION 3
Prereq.: SOC 110, 221 or Religion concentration. Religion as a sociological phenomenon. Social function of religion and critical analysis of functionalist school. American religious institutions and secularization in modern society. *Spring. (E)*

SOC 332 THE SOCIOLOGY OF POVERTY 3
Prereq.: SOC 110. Analysis of poverty conditions and their causes in historical and cross-cultural perspectives. Role of poor in the larger social system and on the way needs and potentialities of the poor are determined. *Spring. Mode 6*

SOC 335 SOCIOLOGY OF POWER 3
Prereq.: SOC 110. The inequality of personal, collective, and institutional power. The paradigms of structural power; pluralism, the elite model, class model and the corporate state. Emphasis on institutional aspects including issues of gender, conflict mediation, and socio-political movements. *Fall. (E) Mode 6*

SOC 336 SOCIOLOGY OF DEVIANCE 3
Prereq.: SOC 110. Deviance as types of persons and behaviors which violate the norms of a social group, as well as attempts to control or limit such persons or behaviors. A historical and cross-cultural perspective will be used to analyze a variety of deviant types of individuals and behaviors. *Mode 6*

SOC 337 SOCIOLOGY OF CRIME 3
Prereq.: SOC 110. Introduction to field of criminological research and analysis. Combined sociological and historical perspective for analyzing the meaning and commission of crime, function of criminal law and correction, and theoretical explanations of various criminal responses. *Fall. Mode 6*

SOC 339 JUVENILE DELINQUENCY 3
Prereq.: SOC 110. The social context of juvenile delinquency, including theories of delinquent behavior, significant problem areas, characteristics of delinquent individuals, and the treatment and control of delinquency. *Spring. Mode 6*

SOC 340 SOCIOLOGY OF AGING 3
Prereq.: SOC 110. Analysis of demographic changes, role shifts, age stereotyping, institutionalization and their implications for the treatment and status of the elderly. Exploration of the processes of aging in the later years, and the impact of the same on people's lives. *Fall. Mode 6*

SOC 401 DEVELOPMENT OF SOCIOLOGICAL THOUGHT 3
Prereq.: SOC 110. Development of sociological thought from its original evolutionary emphasis to the early 20th century: differences between social and sociological thought. The contributions of Spencer, Marx, Durkheim, Simmel, Weber and selected other classical theorists. *Fall.*

SOC 402 CONTEMPORARY SOCIOLOGICAL THOUGHT 3
Prereq.: SOC 110. Sociological thought from early 20th century to present time. Compares and contrasts contemporary schools of sociological thought: consensus, conflict, symbolic interaction and systems theories. *Spring.*

- SOC 411 POPULATION AND SOCIETY 3
Prereq.: SOC 110. Investigation of determinants and consequences of demographic trends emphasizing a historical cross-cultural approach. Special attention to population policies. *Fall. Mode 7*
- SOC 433 INDEPENDENT STUDIES IN SOCIOLOGY 3
Prereq.: Senior standing and permission of instructor. Student must present a written study proposal to the department chairperson at least three weeks prior to registering for this course. Readings and research in selected field of sociology. *On request.*
- SOC 434 HONORS, DIRECTED RESEARCH 3
Prereq.: Honors program and permission of instructor. Directed research in sociology. *On demand.*
- SOC 440 DEATH AND DYING: SOCIOLOGICAL IMPLICATIONS 3
Prereq.: SOC 110. The different cultural, social and historical perspectives on death and their impact on social roles and institutional change. The problems faced by the health care profession in meeting the needs of the terminally ill and the bereaved. Student will be required to have a field experience with a terminally ill patient and/or bereaved family. *Spring. (E) Mode 6*
- SOC 452 COMPLEX ORGANIZATIONS 3
Prereq.: SOC 110. Systematic study of large scale, bureaucratic organizations with emphasis on relations among the organization's members, the organization as a social entity, and its social and physical environment. *Spring.*
- SOC 475 SEMINARS IN SOCIOLOGY 3
An examination of selected topics in sociology. *Irregular.*
- SOC 478 CURRENT TOPICS IN SOCIOLOGY 3
Analysis and evaluation of special topics in the general field of sociology. Topics will vary from year to year. This is not a seminar. If topics differ, may be taken more than once. *Irregular.*
- SOC 480 SEMINAR IN RESEARCH METHODS AND DATA ANALYSIS 3
Prereq.: SOC 222, and STAT 215 or 104. Intensive exposure to research process and data analysis in sociology. Individual data collection projects and computer-based multivariate analysis techniques are required. *Fall. [c]*

SPANISH

*Not open to speakers of Spanish. See SPAN 190/191.

- *SPAN 111 ELEMENTARY SPANISH I 3
Foundations of Spanish phonetics are established through a direct, conversational approach. Not open to student with one year of high school study. *Area B [I]*
- *SPAN 112 ELEMENTARY SPANISH II 3
Prereq.: SPAN 111 or equivalent. The study of spoken and written Spanish is continued along with analysis of Spanish language structure. No credit will be given to students with previous credit for more advanced coursework in Spanish except by permission of the department chairperson. *Area B [I]*
- *SPAN 114 BASIC SPANISH REVIEW 3
Prereq.: Two years of Spanish in high school or equivalent preparation. Refresher course in structure patterns and sound systems of the Spanish language. This course does not apply toward the major or minor requirements in Spanish. *Area B [I]*

- *SPAN 115 CONVERSATIONAL SPANISH I 3
Prereq.: Two years of high school Spanish or equivalent. Designed to develop language fluency in everyday life situations. Instructional techniques will be used to meet student needs. May not be counted toward a major, minor or concentration. *Irregular. Area B [I]*
- *SPAN 125 INTERMEDIATE SPANISH I 3
Prereq.: One year college Spanish or equivalent. Principles of Spanish language structure reviewed. Short stories and plays are read and discussed. Conversation and composition on topics of general interest. No credit will be given to students with previous credit for more advanced course work in Spanish except by permission of the department chairperson. *Area B [I]*
- *SPAN 126 INTERMEDIATE SPANISH II 3
Prereq.: SPAN 125 or equivalent. Continuation of SPAN 125. No credit will be given to students with previous credit for more advanced course work in Spanish except by permission of the department chairperson.* *Area B [I]*
- SPAN 190 SPANISH FOR SPANISH SPEAKERS I 3
Prereq.: Permission of instructor. A course designed to improve diction, reading and writing skills and to study grammar of standard Spanish and dialect variations. Short stories and plays are read and discussed. Eligible Spanish speakers will take this course in place of Spanish 125. *Fall. Area B [I]*
- SPAN 191 SPANISH FOR SPANISH SPEAKERS II 3
Prereq.: Permission of instructor. Continuation of Spanish 190. Further study of grammar and additional practice in diction, reading and writing. Eligible Spanish speakers will take this course in place of Spanish 126. *Spring. Area B [I]*
- SPAN 225 SPANISH COMPOSITION AND DICTION I 3
Prereq.: SPAN 126 or instructor's permission. A course to train students in self-expression by means of frequent composition in Spanish, in addition to systematic drills in pronunciation and intonation. *Fall. Area B [I]*
- SPAN 226 SPANISH STRUCTURE AND IDIOM 3
Prereq.: SPAN 225 or equivalent preparation. A course designed to develop correct idiomatic usage and fluency of expression. *Spring. Area B [I]*
- SPAN 305 LITERARY MASTERPIECES SINCE 1700 3
Prereq.: SPAN 226 (may be taken concurrently). Introduction to the major works in Spanish literature since 1700. *Spring. Mode 3*
- SPAN 315 SPANISH CIVILIZATION 3
Prereq.: SPAN 226 (may be taken concurrently). Cultural evolution of Spain with emphasis on modern period. *Fall. [I]*
- SPAN 316 LATIN AMERICAN CIVILIZATION 3
Prereq.: SPAN 226 (may be taken concurrently). Cultural evolution of Latin America with emphasis on modern period. *Spring. [I]*
- SPAN 335 SPANISH COMPOSITION AND DICTION II 3
Prereq.: SPAN 226. Additional practice in written and oral expression. *Fall. [I]*
- SPAN 336 ADVANCED STRUCTURE AND IDIOM 3
Prereq.: SPAN 335. Additional practice in idiomatic usage and verbal fluency. *Spring. [I]*
- SPAN 360 LITERARY MASTERPIECES TO 1700 3
Prereq.: SPAN 226 (may be taken concurrently). Introduction to great works of Spanish literature from the Middle Ages to 1700. *Fall. (E) Mode 3*

SPAN 371 POETRY AND DRAMA OF THE GOLDEN AGE 3
Prereq.: SPAN 305. Outstanding poets and dramatists including Garcilaso de la Vega, Fray Luis de Leon, Lope de Vega, Tirso de Molina and Calderon de la Barca. *Spring. (E)*

SPAN 376 SPANISH AMERICAN LITERATURE II 3
Prereq.: SPAN 305 or permission of instructor. Readings and interpretation of great works of Spanish American literature from end of Romanticism to present. *Fall. [I]*

SPAN 380 SPANISH LITERATURE OF 18TH AND 19TH CENTURIES 3
Prereq.: SPAN 305 or permission of instructor. Neo-classic, romantic and realistic movements with selected readings of novel, poetry and drama. *Fall. [I]*

SPAN 410 BUSINESS SPANISH I 3
Prereq.: SPAN 335 or 336 equivalent. Development of skills geared to specific situations which would be encountered in business offices, foreign firms, travel agencies and the like. *Fall. [I]*

SPAN 411 BUSINESS SPANISH II 3
Prereq.: SPAN 410 or permission of instructor. Additional practice in the oral and written skills needed for bilingual work situations; emphasis on commercial translation. *Spring. [I]*

SPAN 435 SPANISH PHONETICS AND DICTION 3
Prereq.: Instructor's permission. Phonetic theory and practice designed to help students improve oral expression. *Fall. [I]*

SPAN 441 ADVANCED ORAL PRACTICE I 3
Prereq.: Permission of instructor. Development of fluency in oral self-expression. Speech analysis to improve pronunciation and intonation. *Fall. [I]*

SPAN 442 ADVANCED ORAL PRACTICE II 3
Prereq.: SPAN 441 or permission of instructor. Continuation of SPAN 441. *On request. [I]*

SPAN 451 CONTRASTIVE STRUCTURES OF ENGLISH AND SPANISH 3
Scientific analysis of Spanish as contrasted with English; phonetic theory, description of morphological systems and syntactic analysis. Applications of these principles to the writing of structural drills and practice therein. *Spring. [I]*

SPAN 460 ADVANCED GRAMMAR AND COMPOSITION 3
Prereq.: SPAN 336 or equivalent. Course in written expression of Spanish, particularly in idiomatic free composition, designed to establish appreciation for Spanish style and to develop ability to express shades of meaning. *Irregular. [I]*

SPAN 471 20TH CENTURY SPANISH LITERATURE I 3
Prereq.: Permission of instructor. Detailed study of the Generation of '98. *Fall (O) [I]*

SPAN 472 20TH CENTURY SPANISH LITERATURE II 3
Prereq.: Permission of instructor. Representative authors and literary movements after the Generation of '98. *Spring (E). [I]*

SPAN 476 CERVANTES 3
Prereq.: Permission of instructor. *Don Quixote*, with consideration of Cervantes' other writing. *On request.*

SPECIAL EDUCATION

SPED 420 BASIC MANUAL COMMUNICATION I 3
An introduction to the Manual Alphabet and American Sign Language of the Deaf designed to provide basic skill in non-verbal communication. *Fall.*

SPED 421 BASIC MANUAL COMMUNICATION II 3
Prereq.: SPED 420 or permission of instructor. A continuation of the Manual Alphabet and American Sign Language for the Deaf designed to provide further skill in non-verbal communication. *Spring.*

SPED 470 EDUCATION OF THE EXCEPTIONAL LEARNER 3
Examines growth and development of exceptional learners, including handicapped and gifted and talented, those who may require special education, and methods for identifying, planning for and working effectively with the special needs population in an educational setting. Open to sophomores. Meets state of Connecticut requirement for teacher certification. *Area C*

SPED 480 CHARACTERISTICS AND EDUCATION OF THE EMOTIONALLY DISTURBED 3
An overview of the education of the emotionally disturbed. Topics include characteristics, identification, etiology and theoretical approaches.

SPED 481 CHARACTERISTICS AND EDUCATION OF THE LEARNING DISABLED 3
An overview of the education of the learning disabled. Topics include characteristics, identification, etiology, types of disabilities and theoretical approaches.

SPED 482 CHARACTERISTICS AND EDUCATION OF THE MENTALLY RETARDED 3
An overview of the education of the mentally retarded. Topics include characteristics, identification, classification, etiology, development and theoretical approaches.

SPED 483 APPLIED BEHAVIORAL ANALYSIS IN EDUCATION SETTINGS 3
Prereq.: Admission to the professional program. Specific procedures for the analysis and modification of student behaviors in regular and special education settings.

SPED 484 EDUCATIONAL ASSESSMENT OF THE EXCEPTIONAL LEARNER I 3
Prereq.: Admission to the professional program. An in-depth examination of formal and informal assessment materials and techniques used in evaluating self-help skills, processing abilities and academic achievement in individuals with learning and/or behavior problems. Topics include: procedures for test selection and the scoring and interpretation of test results.

SPED 485 EDUCATIONAL ASSESSMENT OF THE EXCEPTIONAL LEARNER II 3
Prereq.: SPED 480, 481, 482, 484. Further emphasis on the administration and interpretation of assessment instruments. Topics also include data integration, specialized assessment methods and the communication of assessment results.

SPED 486 METHODS AND MATERIALS FOR THE EXCEPTIONAL LEARNER 3
Prereq.: RDG 200 or equivalent, SPED 480, 481, 482, 484 and 487. Adapting and creating materials and methods in language arts, mathematics, science, social studies and career/vocational education. Existing materials in these areas will also be examined.

SPED 487 PROGRAM PLANNING AND CURRICULUM FOR THE EXCEPTIONAL LEARNER 3
 Prereq.: Admission to the Professional Program and SPED 480, 481, 482 and 484. SPED 484 may be taken concurrently. An examination of techniques for classroom organization and planning, writing goals and objectives, developing Individualized Education Programs and organizing and structuring group instruction.

SPED 488 PRACTICUM WITH EXCEPTIONAL LEARNERS I 6
 Prereq.: RDG 200, SPED 480, 481, 482, 483, 484, 486, 487. SPED 483 and 486 may be taken concurrently. Supervised teaching in special education classrooms, agencies or institutions. Attendance at seminars is required. Students must make application to the Special Education office before October 1 (for spring) and before March 1 (for fall).

SPED 489 PRACTICUM WITH EXCEPTIONAL LEARNERS II 6
 Prereq.: SPED 488. SPED 485 may be taken concurrently. Supervised teaching in special education classrooms, agencies or institutions. This experience will involve a different setting, age group and type of exceptionality from SPED 488. Attendance at seminars is required. Student must make application to the Special Education office before October 1 (for spring) and before March 1 (for fall).

SPED 498 INDEPENDENT STUDY IN SPECIAL EDUCATION 3
 Directed independent studies in special education. May be repeated for a total of 6 credits.

STATISTICS

(See Quantitative Analysis)

STAT 104 ELEMENTARY STATISTICS 3
 Prereq.: Placement Exam or ECM 099. Intuitive treatment of some fundamental concepts involved in collecting, presenting and analyzing data. Topics include frequency distributions, graphical presentations, measures of relative position, measures of variability, probability, probability distributions (binomial and normal), sampling theory, regression and correlation. No credit given to students with credit for STAT 215 or 315. *Mode 2*

STAT 215 STATISTICS FOR THE BEHAVIORAL SCIENCES I 3
 Prereq.: ECM 099 or Placement Test. An introductory treatment of research statistics used in behavioral sciences. Quantitative descriptive statistics, including frequency distributions, measures of central tendency and variability, correlation and regression. A treatment of probability distributions including binomial and normal. Introduction to the idea of hypothesis testing. No credit given to students with credit for STAT 104 or 315. *Fall. Mode 2*

STAT 216 STATISTICS FOR THE BEHAVIORAL SCIENCES II 3
 Prereq.: STAT 215 or permission of instructor. Continuation of STAT 215. Survey of statistical tests and methods of research used in behavioral sciences, including parametric and nonparametric methods. *Spring. Mode 2*

STAT 315 MATHEMATICAL STATISTICS I 3
 Prereq.: MATH 218, MATH 221. Theory and applications in statistical analysis. Combinations, permutations, probability, distributions of discrete and continuous random variables, expectation and common distributions (including normal).

STAT 416 MATHEMATICAL STATISTICS II 3
 Prereq.: STAT 315. Continuation of theory and applications of statistical inference. Elements of sampling, point and interval estimation of population parameters, tests of hypotheses and the study of multivariate distributions. *Spring.*

STAT 451 APPLIED STOCHASTIC PROCESSES 3
 Prereq.: STAT 315 and MATH 228. An introduction to stochastic processes. Topics include Markov, Poisson, birth and death, renewal and stationary processes. Statistical inferences of Markov processes are discussed. *Spring. (E)*

STAT 453 APPLIED STATISTICAL INFERENCE 3
 Prereq.: STAT 104 or 215 or 315. Statistical techniques used to make inferences in experiments in social, physical and biological sciences and in education and psychology. Topics included are populations and samples, tests of significance concerning means, variances and proportions and analysis of variance. *Fall. Mode 2*

STAT 455 EXPERIMENTAL DESIGN 3
 Prereq.: STAT 216 or 416. An introduction to experimental designs in statistics. Topics include complete randomized blocks, Latin square and factorial experiments. *Fall. (E)*

STAT 456 STATISTICS LABORATORY 3
 Prereq.: CS 151 and STAT 216 or equivalent. A study of SAS, one of the major statistical procedures and analysis. *Spring. (E) [c]*

STAT 465 NONPARAMETRIC STATISTICS 3
 Prereq.: STAT 216 or 416. A general survey of nonparametric or distribution-free test procedures and estimation techniques. Topics include one-sample, paired-sample, two-sample and k-sample problems as well as regression, correlation and contingency tables. Comparisons with the standard parametric procedures will be made and efficiency and applicability discussed. *Fall. (O)*

STAT 467 LINEAR MODELS 3
 Prereq.: STAT 416 and MATH 228. An introduction to the methods of least squares. Topics include general linear models, least squares estimators, inference and hypothesis testing. *Fall (O)*

STAT 475 MATHEMATICAL STATISTICS III 3
 Prereq.: STAT 416 or equivalent. Continuation of theory and applications of statistical inference. Advanced topics in the estimation of population parameters and the testing of hypotheses. An introduction to Bayesian methods, regression, correlation and the analysis of variance. *Fall. (E)*

STAT 476 TOPICS IN STATISTICS 3
 Prereq.: Permission of instructor. Topics depending on interest and qualifications of the students will be chosen from sampling theory, decision theory, probability theory, Bayesian statistics, hypothesis testing, time series, or advanced topics in other areas. May be repeated under different topics to a maximum of 6 credits. *Spring. (O)*

TECHNICAL COURSES

Laboratory courses designed to develop technical competence; for majors in Technology Education, Industrial Technology and Engineering Technology, and, where indicated, to satisfy Area C General Education requirements.

TC 112 INSTRUMENT DRAWING 3
 Techniques of instrument drawing. Emphasis on lettering, visualization, pencil and ink drawing techniques, pictorial drawing and design layout procedures. May not be substituted for TC 121. *[c] Area C*

TC 113 INTRODUCTION TO INFORMATION PROCESSING 2
 Emphasis placed on the computer as a productivity tool. Student will use application software for word processing, spreadsheets, databases, and CAD. Basic programming, DOS, and electronic mail are also presented. Lab assignments are related to technical applications. *[c] Area C*

- TC 114 INTRODUCTION TO ENERGY PROCESSING 2
Survey of energy conversion systems, including aspects of energy transmission and control employed by industry to increase its value and usefulness. Laboratory experiments include development and use of various energy systems. Open to all students. *Area C*
- TC 118 INTRODUCTION TO MATERIAL PROCESSING 2
Principles and concepts of how industry changes forms of raw materials to increase value and usefulness. Laboratory work and demonstrations to develop awareness of nature and characteristics of raw materials, thereby permitting associations to be made regarding selection of processes by which materials may be changed. Open to all students. *Area C*
- TC 121 TECHNICAL DRAFTING AND CAD 3
Prereq.: TC 113. Introduction to geometric construction, 3D modeling, orthographic projection, sectional views, and auxiliary views, dimensioning/tolerancing and pictorials. Emphasis on the use of CAD (CADKEY). Technical drafting equipment and sketching are used to reinforce drawing techniques. [c] *Area C*
- TC 122 COMPUTER AIDED DESIGN FOR CONSTRUCTION 3
Concepts of Computer Aided Design applied to engineering drawings and schematics for the architectural, civil and electrical systems of the construction industries. A laboratory course utilizing Intergraph/Microstation and AUTOCAD application software or equivalent. [c]
- TC 212 GRAPHIC ARTS INDUSTRIES 3
Introduction to graphic communications. Letterpress, printing, offset lithography, screen process printing, elementary bookbinding, mimeo duplicating and spirit duplicating are discussed. Open to all students. [c] *Area C*
- TC 213 ELECTRICAL ENERGY 3
A study of the electrical nature of matter, its conduction and magnetic properties. Focus on the behavior of electricity as a phenomenon. *Area C*
- TC 214 MECHANICAL ENERGY 3
A study of laws and concepts involved in the conversion, transmission and control of mechanical energy. Experiences will include the analysis of common mechanical and fluid-mechanical circuits. *Area C*
- TC 215 MATERIALS AND PROCESSING 3
A laboratory course to develop concepts involved in the efficient processing of multiple materials. Appropriate hand tools and equipment are employed to demonstrate the relationship between materials, properties and processes. Attention is given to procedures common to a variety of manufactured products. *Fall. Area C*
- TC 216 MATERIAL PROCESSING II (METALLICS) 3
Comprehensive study of and experiences with those materials which possess metallic characteristics and manufacturing processes. *Area C*
- TC 217 MATERIAL PROCESSING III (PLASTICS AND CERAMICS) 3
Comprehensive study of and experiences with nonmetallic materials which possess, under certain conditions, a degree of plasticity. Synthetic, organic materials (plastics) and inorganic materials (ceramics); and manufacturing processes. *Spring. Area C*
- TC 223 ELECTRICAL CIRCUITS: DC 3
Prereq.: Math placement equivalent to MATH 101 or higher. DC electrical circuits with emphasis on analysis, modeling and troubleshooting. *Fall. Area C*
- TC 233 ELECTRICAL CIRCUITS: AC 3
Prereq.: TC 223, MATH 115 and PHYS 111. AC electrical circuits with emphasis on analysis, modeling and troubleshooting. *Spring. Area C*
- TC 255 MATERIALS OF CONSTRUCTION 3
Prereq.: MATH 115 and IT 150. Investigates the strength and other properties required of various materials used in construction. The testing, proper use and application of aggregates, concrete, structural steel and timber will be emphasized. *Area C*
- TC 261 INTRODUCTION TO GRAPHIC DESIGN AND COLOR 3
A course designed to introduce the student to typography and typography design. Design in brochures and packaging will be studied as well as theory and practice of full color printing. Lecture and laboratory. [c]
- TC 303 ELECTRO-MECHANICAL CONVERTERS 3
Prereq.: TC 213, or TC 233, PHYS 121 or permission of instructor. A study of the analysis and design of electric motors, generators, transformers and their control systems, with emphasis on application and performance characteristics. *Fall. Area C*
- TC 313 ELECTRICAL POWER SYSTEMS 3
Prereq.: TC 213 or 233 or PHYS 122 or permission of instructor. Commercial, industrial and residential applications of the National Electrical Code and Contemporary Wiring practices and techniques. *Spring. Area C*
- TC 316 METALS MACHINING 3
Prereq.: TC 216 or permission of instructor. Study of and experiences in techniques of machining, precision measurement and heat treatment of metallic materials. [c]
- TC 321 COMPUTER-AIDED DRAFTING 3
Prereq.: TC 112 or 121 or 254 or permission of the instructor. Laboratory-based instruction to the utilization of the computer in preparing architectural, civil, mechanical, electrical, piping and pictorial drawings. [c]
- TC 323 ANALOG CIRCUITS 3
Prereq.: TC 233 or permission of instructor. Analog circuits and their application. Includes the examination of power supplies, amplifiers and oscillators. *Fall. [c] Area C*
- TC 324 FLUID POWER SYSTEMS 3
A study of the design and fabrication, diagnosis and repair of fluid power systems, including hydraulics, pneumatics and fluidics.
- TC 333 DATA ACQUISITION AND CONTROL 3
Prereq.: TC 213. An examination of digital electronic and microprocessor-based techniques for data acquisition and control. Interfacing, signal processing and computer communications are included. *Spring. [c] Area C*
- TC 334 MECHANISMS FOR AUTOMATION 3
A study of the design and fabrication, diagnosis and repair of mechanical power systems, including mechanical transmission and control components. *Fall.*
- TC 342 POROUS PRINTING AND POST-PRESS OPERATIONS 3
Fundamental operations and related information in post-press printing operations, rubber stamp making, and screen process printing. Study of layout, paper, ink and hand binding. *Area C*
- TC 344 RECIPROCATING ENGINES 3
Prereq.: TC 114, 214. A study of theory, design, diagnosis and repair of liquid propane gas, diesel and gasoline fueled stationary and mobile reciprocating engines.

TC 351	ESTIMATING FOR CONSTRUCTION	3	TC 445	CONSTRUCTION INDUSTRIES	3
Prereq.: IT 150, 254. Examination of the role of the construction estimator. Emphasis on pricing labor, material and equipment costs in the areas of sitework, concrete, masonry, steel and carpentry.			Prereq.: TC 215. Comprehensive study of carpentry and related construction industries. Emphasis toward gaining modern concept of wood technology. <i>Spring.</i>		
TC 352	GRAPHIC DESIGN AND TYPOGRAPHY	3	TC 446	TOOL AND DIE FUNDAMENTALS	3
Prereq.: TC 212 or permission of the instructor. The study of type and its relation to paper. Emphasis will be on the relationship of type choice and context, purpose, space, audience and method of printing. Desktop publishing will be examined. [c] <i>Spring. Area C</i>			Prereq.: TC 416 or permission of instructor. Introductory study of and experiences in design and construction of tools, dies and work-holding devices used in tooling for manufacturing. [c]		
TC 353	CONSTRUCTION SURVEYING	3	TC 453	MICROPROCESSORS	3
Prereq.: MATH 115. Will provide the student with a series of activities which will acquaint the student with instruments and tools of the surveyor, and their uses in the techniques of field surveying. Emphasis will be on actual layouts of areas and elevations as done in construction.			Prereq.: TC 433. A study of microprocessor operation, programming, interfacing and application. Not for graduate credit. <i>Fall.</i>		
TC 355	CONSTRUCTION PLANNING	3	TC 455	CONSTRUCTION PROJECT MANAGEMENT	3
Prereq.: TC 351. Examination of the role of the construction planner/scheduler. Emphasis on CPM scheduling using arrow and precedence diagram techniques. Procedures associated with determining project completion dates, progress schedule updating and project time reduction.			Prereq.: TC 352. Examination of the role of the construction project manager. Emphasis on administrative procedures, quality control, time and cost control, resource management, field office practices, construction processing, job site meetings and correspondence.		
TC 371	PLASTICS PROCESSING TECHNIQUES	3	TC 462	ADVANCED GRAPHIC ARTS TECHNIQUES	3
A study of the manufacturing techniques used in the plastics industry. Emphasis will be placed on the processes of extrusion, injection molding, blow molding, compounding and thermoforming. Correlation between the properties of a material and its processibility will be investigated. [c] <i>Area C</i>			Prereq.: TC 442. Integrated experience of advanced instruction in both letterpress and offset printing. Experiences will include advanced camera work leading to halftone photography, process color photography and other camera manipulations. Cultural and historical aspects of graphic arts and industrial visitations. [c] <i>Area C</i>		
TC 405	APPLIED TECHNICAL TOPICS	1-3	TC 463	PROGRAMMABLE LOGIC CONTROLLERS	3
Prereq.: One related laboratory course. A laboratory-oriented course providing comprehensive study of a selected technological topic. Course may be repeated for maximum of 6 credits for different topics, but students may not take the course under the same topic more than once. <i>Irregular.</i>			Prereq.: Junior standing. Not for graduate credit. A study of programmable sequence controllers, and programmable logic controllers for motion and process control. The role of feedback as a control strategy, regulators and servomechanisms is included. <i>Fall. [c] Area C</i>		
TC 416	PRINCIPLES OF NUMERICAL CONTROL	3	TC 472	INTRODUCTORY AND PUBLICATIONS PHOTOGRAPHY	3
Prereq.: TC 316 or permission of instructor. A study of the principles and concepts essential for numerical control part programming and machine tool operations. Laboratory experiences will include word address programming, computer-aided programming and CNC machine tool setup and operation. [c]			Professional and laboratory course for instructors and students interested in photography. Principles of camera, camera handling, exposure, lighting, taking black-and-white pictures and slides, composition, developing, printing and enlarging. Darkroom plans and equipment listings will be evaluated. Students will prepare black-and-white pictures and slides. Field trips to selected photographic studios. Open to all students. <i>Summer. Area C</i>		
TC 433	DIGITAL CIRCUITS	3	TECHNOLOGY EDUCATION		
Prereq.: TC 233 or permission of instructor. Digital circuits and their application. Includes the examination of Boolean Algebra, Gate Logic and a variety of special purpose integrated circuits. <i>Spring.</i>			TE 110	TECHNOLOGICAL SYSTEMS	3
TC 441	ARCHITECTURAL DRAFTING	3	A holistic perspective of technological systems and their impacts on social institutions. Focus on human endeavors in the development, use and control of technology. <i>Fall. Area C</i>		
Prereq.: TC 121. Enables student to prepare specifications and drawings necessary for construction of a dwelling. Introductory experiences in use of survey equipment will be provided. Elements of school building construction and layouts. [c] <i>Area C</i>			TE 199	ORIENTATION TO TECHNOLOGY EDUCATION	1
TC 442	LITHOGRAPHY	3	Orientation to teaching Technology Education. Develops a sense of professional behavior, purpose and identity. Introduces planning of technical lessons, teaching Technology Education and laboratory safety procedures. <i>Spring.</i>		
Prereq.: TC 212 or consent of instructor. Photo-offset lithography, covering all phases of lithographic reproduction. Layout, composition, process camera work, platemaking and offset press work. Includes continuous tone photography. [c] <i>Area C</i>			TE 399	PROFESSIONAL STRATEGIES OF TECHNOLOGY EDUCATION TEACHING	2
TC 443	ELECTRONIC COMMUNICATION	3	Prereq.: Must be taken prior to or concurrent with TE 400; junior or senior standing required. Stresses the background needed for student teaching and professionalism as a teacher of Technology Education. The development, presentation and evaluation of student-prepared lessons unique to TE laboratories will be emphasized. Preparation for student teaching assignments will be included. <i>Fall.</i>		
Prereq.: TC 223, 233 and 323. A study of electronic communication systems. Provides a familiarization with the principles of telephone, AM and FM radio, television and microwave. Laboratory activities concern the design, fabrication, maintenance and servicing of systems. <i>Spring.</i>			TE 400	TEACHING OF TECHNOLOGY EDUCATION	3

Prereq.: Acceptance into the Professional Program. A professional course which stresses preparation for student teaching, or supervised teaching, and objectives, planning techniques and problems of teaching Technology Education at the secondary, middle and elementary school levels. Required of all undergraduate majors in Technology Education, and graduate students in the Technology Education certification program. This course is a prerequisite to student teaching. *Fall.*

TE 410 COMMUNICATION SYSTEMS 3

Prereq.: 24 hours of technical courses including TC 113, 121 and 212, or permission of instructor. Laboratory application of graphic and electronic communication systems which extend human capability with focus on how the individualized components function together as a given system. Research and lab activities will include computer-aided design, desktop publishing, photography and telecommunications. Lecture/lab. *Fall. (O)*

TE 411 ANIMATION GRAPHICS 3

Prereq.: TC 112 or 121 or 122. Using animation software, digitizing equipment, and paint/draw programs to produce two- and three-dimensional presentations, slide shows, and videotapes. *Irregular. [c]*

TE 420 PRODUCTION SYSTEMS 3

Prereq.: 24 hours of technical courses including TC 118 and 215, or permission of instructor. Laboratory application of the systems and technical means used to manufacture and construct products. Students will create designs, prototypes, tooling, transport devices, advertising strategies, line production techniques and quality control mechanisms. Lecture/lab. *Spring. (E)*

TE 428 RESEARCH AND EXPERIMENTATION 3

Prereq.: Completion of 18 semester hours of required technical (T.C.) courses. Planning, directing and evaluating effective research procedures with emphasis on the application of research and experimentation to the teaching of Technology Education and its relationship to mathematics, science and social studies. *Fall.*

TE 430 TRANSPORTATION SYSTEMS 3

Prereq.: 24 hours of technical courses including TC 114 and 214, or permission of instructor. Laboratory application of the systems which extend the means of transportation beyond the physical capability of the human body. Includes terrestrial, atmospheric, marine and space transportation technologies and their social, environmental and economic impact. Lecture/lab. *Fall. (E)*

TE 450 TECHNOLOGICAL ENTERPRISE 3

Prereq.: TE 410, 420 and 430, or permission of instructor. Synthesis of the production, transportation and communication systems used to organize and operate an entrepreneurial business endeavor through laboratory application. Lecture/lab. *Spring. (O)*

TE 459 TECHNOLOGY EDUCATION IN THE ELEMENTARY SCHOOL 3

Prereq.: Junior standing. Elective for Technology Education majors who wish to examine technology education activities suitable for elementary school. Integrating such activities with typical grade school curriculums.

TE 488 INDEPENDENT STUDIES IN TECHNOLOGY EDUCATION 1-3

Prereq.: Senior or graduate standing and permission of instructor. Directed independent studies in Technology Education for students who wish to pursue specialized areas which are not covered in regular course offerings. May be repeated with different topics for a maximum of 6 credits. *On request.*

THEATRE

TH 099 THEATRE PRACTICUM No Credit

Prereq.: Theatre major status. Required of Theatre majors each semester. All students must complete a minimum of two practicums in the areas of technical theatre and front-of-house. Participation in theatre production activities, such as acting, directing, technical-backstage, costuming, box-office, ushering and other production concerns. Duties will be assigned each student with hours arranged at beginning of each semester. (This course carries no load credit.)

TH 100 SEARCH IN THEATRE 3

Exposure to ideas, values and experiences in theatre. Concerns may vary from section to section. *Mode 4*

TH 110 INTRODUCTION TO THEATRE 3

Introduction to theatre as a social institution. Students are required to attend Theatre Department productions. *Mode 4*

TH 111 STAGECRAFT 3

Constructing and rigging scenery for different stages. Two lecture and average of two hours laboratory work per week. *Spring. Mode 4*

TH 115 PLAY PRODUCTION 1

Open to all students who enjoy working on plays. Students may elect to work in stagecraft, lighting, sound, scene painting or properties, costuming, or front-of-house management. An average of three hours laboratory work per week is required. May be repeated for maximum of 6 credits. *Mode 4*

TH 117 LIGHTING 3

Lighting techniques in modern theatre practice. Two lectures per week. *Fall. Mode 4*

TH 121 COSTUMING 3

Brief history of costume and constructing costumes. Introduction to design principles. Two lectures and average of three hours laboratory work per week. *Fall. Mode 4*

TH 126 MAKEUP I 2

Laboratory course in stage makeup. Crew assignments on theatre productions are normally required. One two-hour session per week. *Spring (E), Fall (O).*

TH 135 SPEAKING-VOICE DEVELOPMENT 3

Development of a more relaxed and vibrant speaking voice in dramatic performance through analysis of each student's non-clinical voice-use problems followed by drills and body-voice exercises to free body, breath and vocal tract. *Fall. Mode 4*

TH 143 THEATRE GAMES AND IMPROVISATIONS 3

Theatre games and improvisations to build concentration, relaxation, imagination and the ability to react, leading to heightened awareness and confidence in both exercises and very brief scenes. Exploration of the theatrical moment. *Mode 4*

TH 145 ACTING I 3

Prereq.: Major status or permission of instructor. Concentration, relaxation and freeing the imagination, body and voice. Improvisational exercises for exploration and discovery in relation to acting fundamentals. Students are required to audition for main stage productions, if only for the audition experience. *Mode 4*

TH 151 DIRECTING I 3

Prereq.: Permission of the instructor. Introduction to script analysis and fundamentals of directing. *Fall. Mode 4*

TH 212	STAGE MECHANICS	3	Prereq.: TH 111 or prior permission of instructor. A study of multi-scene productions, including change-time factors and quick-change systems, as well as unit sets and machinery of the theatre. <i>Spring. (O) Mode 4</i>	TH 332	COSTUME DESIGN	3	Prereq.: TH 121, 122 and permission of instructor. Designing costumes for various styles of plays. Work on design renderings and patterns for construction of costumes. <i>Spring. (O)</i>
TH 213	SCENE PAINTING I	1	Laboratory/studio course in the techniques of painting scenery for the stage. Meets two hours each week. <i>Fall (O). Mode 4</i>	TH 335	READER'S THEATRE	3	Chamber or group theatre presented orally in theatre setting. Public performances part of course. <i>Irregular.</i>
TH 214	SCENE PAINTING II	1	Continuation of Scene Painting I. Meets for two hours each week. <i>Spring. (O) Mode 4</i>	TH 336	STAGE DIALECTS	3	A survey of dialects for stage use with mastery of a select few. Dialect drills, practice and performance. <i>Spring. (E)</i>
TH 217	SCENO-GRAPHIC TECHNIQUES	1	Prereq.: TH 111. Laboratory/studio course in various methods of graphic presentations of stage sets and designs, including measurements and specifications. Meets one hour each week. <i>Spring. (E) Mode 4</i>	TH 338	ADVANCED VOICE DEVELOPMENT	3	Prereq.: TH 135. Expanding and developing range, flexibility and vibrancy of the speaking voice in dramatic performance. Development of effective articulation. TH 239 should be taken concurrently. <i>Spring. Mode 4</i>
TH 222	HISTORY OF FASHION	2	Study of the history of dress stressing the influences of culture upon fashion and original period research for the theatre. Once lecture and an average of two hours per week laboratory time working on period costumes. <i>Spring. (E) Mode 4</i>	TH 339	VOICE TUTORIAL	1	Prereq.: TH 338 (may be taken concurrently) and B.F.A. Acting major status. Tutorial to solve speaking-voice problems through individual lessons and vocal coaching. May be repeated for a total of 6 credits.
TH 235	THEATRE MOVEMENT I	2	Prereq.: PE 151 or 152 or permission of instructor. Development of an understanding of body placement and projection. Emphasis on body and spatial awareness in relation to environment. What, where, why and how of movement. Interaction of body and mind.	TH 347	ACTING III	3	Prereq.: TH 238, 246 or prior permission of instructor. Performance considerations in scene study and character development, with emphasis on contemporary plays. <i>Spring. (E)</i>
TH 236	THEATRE MOVEMENT II	2	Prereq.: TH 235. Application of body-space-movement awareness to acting and characterization objectives. Physicalization of a character and movement in a scene. Reinforces and extends organic connections in characterization, assisting the actor to find the organic reality of his character.	TH 352	DIRECTING II	3	Prereq.: TH 151 or permission of the instructor. Production procedures, coaching methods and modern styles of interpretation. Class-work will include preparation of short scenes. <i>Spring.</i>
TH 246	ACTING II	3	Prereq.: TH 145. Emphasis on basic techniques of acting; introduction to scene study and characterization. <i>Spring.</i>	TH 373	THEATRE SURVEY I	3	Prereq.: TH 110 or major or concentrate status. Theatre from 18th century to present day, including physical theatre, audiences, acting style and other elements of production. Representative plays from standpoint of performance. <i>Fall.</i>
TH 251	STAGE MANAGEMENT	1	Prereq.: TH 111 and 151. Study of function, duties and methods of operation of the stage manager, to include a study of the Actor's Equity Association contract.	TH 374	THEATRE SURVEY II	3	Theatre from Greeks to 18th century. <i>Spring. (E)</i>
TH 316	SCENE DESIGN	3	Prereq.: TH 111 and 217 and departmental permission. Designing scenery for various kinds of stages and plays. Work on ground plans and elevations, perspective drawing and finished design. <i>Fall. (E)</i>	TH 447	ACTING IV	3	Prereq.: TH 347 and departmental permission. Performance considerations in scene study and role development, with emphasis on plays of varying styles and different periods. <i>Fall. (O)</i>
TH 318	LIGHTING DESIGN	3	Prereq.: TH 111, 117. Lighting design and layout for the proscenium, open and arena stages. Special emphasis on design problems, equipment and control systems. <i>Spring. (O)</i>	TH 449	PROFESSIONAL ACTOR PREPARATION	3	Prereq.: TH 347 and permission of the instructor. Preparation and study of audition materials, resumes, portfolios, photos, interview techniques, agents, contracts and statistics as part of the student actor's readiness to face the professional job market. <i>Fall. (O)</i>
TH 327	MAKEUP II	2	Prereq.: TH 126 or prior permission of instructor. Open to Theatre majors only. Advanced makeup projects with attention to mask building and prosthesis. Crew assignments on theatre productions are normally required. One two-hour session per week. <i>Fall. (E)</i>	TH 454	MUSICAL THEATRE	3	Prereq.: Permission of instructor, or TH 151 and 246. Theory, methods and procedures of musical theatre production.
TH 330	DESIGN TUTORIAL	3	Prereq.: Major or minor in Theatre and permission of instructor. Tutorial to solve skill problems through individual lessons and coaching with design major preparing to fulfill project requirements. May be repeated for a total of six credits.	TH 455	MIME	3	Prereq.: Theatre major and junior-senior standing for full-time students. Introduction to illusionary, isolation and technical elements of mime. Body movement as it relates to characterization, physical conditioning and circus skills. Introduction to clown work. <i>Irregular.</i>
				TH 456	SHAKESPEAREAN PRODUCTION	3	Prereq.: TH 151 and 246, or permission of instructor. Analysis of selected plays from perspective of actor and director. Students act in and stage scenes as major requirements. <i>Irregular.</i>

- TH 465 CREATIVE DRAMATICS FOR CHILDREN 3
Develops the imagination, creativity, and communication skills of children ages 5 through 12. Includes pantomime, theatre games, improvisation, and formal theatre experience. *Spring. Area C*
- TH 470 HISTORY OF AMERICAN THEATRE 3
American theatre from Colonial times to present, including physical theatre, audiences, acting and directing styles, and other elements of production. Representative plays from standpoint of performance. *Irregular.*
- TH 481 PROJECTS: SCENERY 1-3
Prereq.: TH 316 and departmental permission. Individual projects in reading, research or production under guidance of member of Theatre staff.
- TH 482 PROJECTS: COSTUMING 1-3
Prereq.: TH 322 and departmental permission. Individual projects in reading, research or production under guidance of member of Theatre staff.
- TH 483 PROJECTS: ACTING A 1-3
Prereq.: TH 347 and junior standing and departmental permission. Individual projects in reading, research or production under guidance of member of Theatre staff.
- TH 484 PROJECTS: ACTING B 1-3
Prereq.: TH 483 and departmental permission. Individual projects in reading, research or production under guidance of member of Theatre staff.
- TH 485 PROJECTS: DIRECTING I 3
Prereq.: Directing II (TH 352) and departmental permission. Individual works as assistant director and stage manager for faculty-directed major production.
- TH 486 PROJECTS: LIGHTING/SOUND,
STAGE MANAGEMENT 1-3
Prereq.: TH 318 and departmental permission. Individual projects in reading, research or production under guidance of member of Theatre staff.
- TH 487 PROJECTS: RESEARCH 1-3
Prereq.: TH 374 or 470 or departmental permission. Individual projects in reading, research or production under guidance of member of Theatre staff.
- TH 488 PROJECTS: DIRECTING II 3
Prereq.: TH 385 and departmental permission. Individual direction of student production under faculty supervision.
- TH 489 STUDIES IN THEATRE/DRAMA 3
Prereq.: Prior permission of instructor. Selected area of theatre and/or drama not covered in other courses. Topic varies. May be repeated for credit. *Irregular. Mode 4*
- TH 490 SUMMER THEATRE WORKSHOP 3 or 6
Prereq.: Permission of instructor. Students in Summer Theatre Workshop learn theatre by participating in a true summer theatre production program. The core of the production company is comprised of faculty directors and designers. Enrollees in Summer Theatre Workshop work side-by-side with this highly experienced core company, filling out the cast and production staffs as needed. The faculty of the program endeavors to utilize students according to their desires and abilities. May be repeated for additional credit. *Summer only. Mode 4*
- TH 495 THEATRE INTERNSHIP 3-6
Prereq.: Permission of department. Substantial work in approved area/regional theatre(s) offering experience or research opportunities unavailable on campus. May be repeated for a total of 12 credits. *On demand.*

VOCATIONAL-TECHNICAL EDUCATION

Courses designed to develop professional competence; for majors in Vocational Technical Education.

- VTE 113 ANALYSIS AND TEACHING OF
VOCATIONAL-TECHNICAL EDUCATION I 3
Basic introductory course for students in Vocational Education. First principles of teaching and learning and their applications in the development of instructional objectives, occupational analysis techniques, progress records, skill and informational lesson plans, instructional sheets, written and performance tests and grading systems.
- VTE 116 ANALYSIS AND TEACHING OF
VOCATIONAL-TECHNICAL EDUCATION II 3
Prereq.: VTE 113. Additional development and application of principles and practices introduced in VTE 113. The selection and/or development of audio-visual materials, learning activity packages and techniques of individualizing instruction. Students develop and present planned lessons utilizing lecture-discussion and lecture demonstration techniques.
- VTE 117 SUPERVISED TEACHING FOR
VOCATIONAL-TECHNICAL EDUCATION I 3
Prereq.: VTE 113 or taken concurrently and employed at least half-time as a vocational teacher in a public school system. Beginning instructors in the vocational technical programs teach for one semester under the supervision of Central Connecticut State University faculty with emphasis on Connecticut teaching competencies in both classroom and shop/lab areas. Two seminars provide opportunity for identification of problems and solutions applicable to vocational teaching. Open to instructors in vocational technical education during their first calendar year of teaching.
- VTE 118 SUPERVISED TEACHING FOR
VOCATIONAL-TECHNICAL EDUCATION II 3
Prereq.: VTE 116 and VTE 117 (VTE 116 may be taken concurrently) and employed at least half-time as a vocational teacher in a public school system. Continuation of VTE 117 with an emphasis on integrating instructional theory and practice in the shop or related subject areas. Instructors teach for one semester under the supervision of Central Connecticut State University faculty. Two seminars provide opportunity for identification of problems and solutions applicable to vocational teaching. Should be taken in first year of teaching.
- VTE 325 CURRICULUM DEVELOPMENT FOR
VOCATIONAL EDUCATION 3
Systematic curriculum and instructional planning for the classroom vocational teacher commencing with vocational technical education program philosophies and goals and culminating with formal course, unit, lesson and individual curricular plans and materials including individualized learning activity packages. *Summer.*
- VTE 328 SHOP ORGANIZATION AND MANAGEMENT 3
Physical aspects of vocational industrial buildings and shops. Purchase and inventory of supplies, selection and installation of equipment and development of desirable shop layouts. The basic philosophies and practices of exploratory work offered and the specialized training which follows. Industrial safety, public relations, use of instructional aids and development of programs for special groups. *Fall.*
- VTE 329 TEACHING OF RELATED SUBJECTS 3
Unique characteristics of teaching related subjects. Qualifications of related instructor and procedures required in order to teach basic principles, trade-related applications and general life experience applications. The role of related subjects to the entire vocational-technical program. Primary emphasis is directed toward the preparation and evaluation of instructional materials which relate subject principles and concepts to basic trade applications. *On request.*

VTE 400 EVALUATING STUDENT ACHIEVEMENT IN VOCATIONAL TECHNICAL EDUCATION 3

Prereq.: VTE 113. Procedures for evaluating student achievement of instructional objectives with application in occupational education subjects. *Spring.*

VTE 415 PRINCIPLES OF VOCATIONAL EDUCATION 3

An introduction to the principles and philosophy of vocational education and its impact on society. A brief historical development of vocational education, supportive legislation, characteristics of the various program fields, delivery systems and current issues and problems.

Area C

VTE 421 OCCUPATIONAL SPECIALIZATION 25

Award of academic credit for occupational experience through an occupational competency evaluation process. Candidates must demonstrate trade or occupational competency in technical knowledge and manipulative skills by passing a written and performance examination. Open to vocational technical instructors, occupational subjects teachers as well as others meeting the experience requirements. College credit will in general be awarded to those persons matriculated in the Vocational Technical Education B.S. degree program. Credit is entered on transcripts as "credit by examination" and a course grade is not recorded.

Occupational competency examinations from the National Occupational Competency Testing Institute can be arranged through Central Connecticut State University. Persons interested in taking the competency examinations and obtaining college credit should contact Dr. Mary Furtado Holloway, School of Technology, Central Connecticut State University, New Britain, Connecticut (Phone: 827-7413). *On request.*

VTE 430 OCCUPATIONAL UPDATE PRACTICUM 6

Practicum for vocational education teachers individually designed to update their skills and knowledge relative to occupational changes in business and industry. Teachers identify occupational specialty skills in which they need greater proficiency. Formulate a framework of training objectives, participate in group seminars and acquire experiences within cooperating firms. Program supervision by University faculty with assistance by cooperating firm representatives. *On request.*

VTE 440 HUMAN RELATIONS IN THE WORKPLACE 3

A study of human relations with emphasis on self-awareness, role multiplicity and the effect of life stresses on the adult in the workplace. Attitudes, values, problem-solving and communication techniques are explored in the context of effective interpersonal relationships. Concepts of group dynamics and adult learning are addressed with emphasis on recognition and skill development. *Spring Area C*

VTE 445 HEALTH OCCUPATIONS PRACTICUM 5

Prereq.: VTE 440 and permission of the Coordinator. Health Occupations Education program. Clinical experience in a selected health agency or institution for students of health occupations education. Practicum objectives are individualized to meet the desired goal of each student. The experience is offered under the guidance and supervision of the Health Occupations Education University faculty with the cooperation of the affiliating agencies per contractual agreement. Integral part of the B.S. program in Health Occupations Education. It provides the candidates with an opportunity to update their technical expertise. (Applications must be filed by March 15 for summer and fall semesters and by October 15 for the spring semester. Applications are obtained from the coordinator, Dr. Mary Furtado Holloway, School of Technology, 827-7996.

VTE 450 PRINCIPLES AND ORGANIZATION OF COOPERATIVE WORK EDUCATION 3

The development and organization of work experience programs at the secondary school level. Examines those activities necessary to establish, maintain and improve cooperative work education programs. *Fall.*

VTE 455 LABOR MARKET TRENDS AND STUDENT JOB READINESS 3

Analysis of factors influencing the work placement of cooperative work education students. Special attention given to the study of present needs as well as anticipated trends in Connecticut's labor market, and the development of a curriculum to establish job readiness skills. *Spring.*

VTE 470 ADMINISTRATION OF VOCATIONAL STUDENT ORGANIZATIONS 3

Organization, development and management of vocational student organizations, including history, legal structure and requirements, public relations, fund raising, development of leadership and evaluations procedure.

VTE 490 TOPICS IN VOCATIONAL TECHNICAL EDUCATION 1-3

Special purpose programs designed to meet the needs of selected groups of vocational teachers or directed independent studies for individual students. Provides a mechanism that encourages the vocational instructor to elect, with the guidance of University faculty, job-specific and short-term selective experiences to insure the instructor's technical expertise. May be repeated on different topics to a maximum of 6 credits. *Upon request.* (Contact Dr. Mary Furtado Holloway, School of Technology, 827-7996, prior to registration.)

WORD PROCESSING

WP 190 KEYBOARDING 3

Development of basic keyboarding skills and related business applications. *Irregular. [c] Area C*

WP 204 WORD PERFECT—BASIC 1

An introduction to word processing using Word Perfect software. Acquaints users with advanced editing features as well as merging, specialized printing and archiving documents. *[c] Area C*

WOMEN'S STUDIES

WS 200 INTRODUCTION TO WOMEN'S STUDIES 3

Focus on issues concerning women. Examines gender issues in societies, political institutions, education, the arts, medicine, science and the family. *Spring. Mode 6*

PRESIDENT'S CABINET

(Date of Appointment to Central Connecticut State University in Parenthesis)

JOHN W. SHUMAKER, Ph.D., University of Pennsylvania; *President (1987)*.
ROBERT F. ARIOSTO, Ed.D., Teachers College-Columbia University; *Vice President of Student Affairs and Dean of Students (1986)*.
KAREN C. BEYARD, Ph.D., Arizona State University; *Vice President for Academic Affairs (1986)*.
RICHARD L. JUDD, Ph.D., University of Connecticut; *Vice President for University Affairs (1964)*.
STEPHEN O. MITCHELL, Ph.D., Indiana University; *Vice President for Finance and Administration (1989)*.
RICHARD I. ARENDS, Ph.D., University of Oregon; *Dean, School of Education and Professional Studies (1991)*.
ADOLFO CHAVARRO, Ph.D., State University of New York-Stonybrook; *University Ombudsman and Associate Professor of Psychology (1987)*.
GEORGE A. CLARKE, Ph.D., Pennsylvania State University; *Dean, School of Arts and Sciences (1984)*.
JUDITH A. DAVIDSON, Ph.D., University of Massachusetts; *Director of Intercollegiate Athletics (1988)*.
HENRY S. ENCK, Ph.D., University of Cincinnati; *Executive Assistant to the President for International Development (1968)*.
THOMAS B. FLAHERTY, Ph.D., Tulane University; *Director of Planning (1970)*.

JOHNIE M. FLOYD, M.S., Central Connecticut State University; *Special Assistant to the President (1970)*.
PETER J. KILDUFF, B.A., Central Connecticut State University; *Director of University Relations (1989)*.
DONNA B. MUNROE, M.A., University of Connecticut; *Associate Vice President of Personnel Administration (1985)*.
FRANK RESNICK, M.S., Indiana University; *Controller (1977)*.
HAKIM SALAHU-DIN, Ph.D., Kansas State University; *Director of Admissions (1990)*.
WILLIAM O. SHERMAN, Ph.D., University of Utah; *Acting Dean of Graduate Studies and Research (1970)*.
LARRY E. SHORT, D.B.A., University of Colorado; *Dean, School of Business (1986)*.
JEANNE SOHN, M.S.L.S., Drexel University; *Director of Library Services (1989)*.
NATALIE STIMPSON-BYERS, M.A., Montclair State University; *Director of Affirmative Action (1985)*.
JOHN R. WRIGHT, Ed.D., West Virginia University; *Dean, School of Technology (1989)*.
RICHARD P. WURST, M.S., Thomas Jefferson Medical College; *Associate Professor of Biological Sciences and President of the Faculty Senate (1967)*.
PRESIDENT OF THE STUDENT GOVERNMENT ASSOCIATION
PRESIDENT OF THE GRADUATE STUDENT ASSOCIATION

FACULTY, ADMINISTRATIVE STAFF, LIBRARIANS

ELIZABETH N. AARONSOHN, Ed.D., University of Massachusetts; *Assistant Professor of Teacher Education (1991)*.
HELEN ABADIANO, Ph.D., Ohio State University; *Assistant Professor of Reading and Language Arts (1992)*.
FATEMAH ABDOLLAHZADEH, Ph.D., Loughborough University (England); *Associate Professor of Computer Science (1989)*.
MARK E. ADAMS, M.S., Idaho State University; *Athletics (1991)*.
JEAN ALICANDRO, B.A., Central Connecticut State University; *Residence Hall Director (1984)*.
PAUL L. ALTIERI, Ph.D., Boston College; *Professor of Economics (1975)*.
GAVRO ALTMAN, Ph.D., University of Belgrade; *Visiting International Scholar/Professor of Political Science (1992)*.
GABRIEL D. ALUNGBE, Ph.D., University of Florida; *Assistant Professor of Engineering Technology (1991)*.
THOMAS ANDREWS, M.S., Central Connecticut State University; *Director of Clinical Practices, Associate Professor of Teacher Education (1968)*.
MICHAEL ANSARRA, B.S., Cornell University; *Assistant Director of Admissions (1988)*.
ALI ANTAR, Ph.D., University of Connecticut; *Professor of Physics/Earth Science (1980)*.
HELEN APTHORP, Ph.D., University of Connecticut; *Assistant Professor of Special Education (1992)*.
JAMES V. ARENA, Ph.D., University of Connecticut; *Assistant Professor of Chemistry (1989)*.
MARCO A. ARENAS, Ph.D., University of Connecticut; *Associate Professor of Modern Languages (1965)*.
DOMINGO ARIAS, M.A., University of Chile; *Assistant Director, Career Services and Cooperative Education (1991)*.
EDWARD R. ASTARITA, M.S., Columbia University; *Associate Professor of Marketing (1975)*.
LOUIS AULD, Ph.D., Bryn Mawr College; *Associate Professor of Modern Languages (1987)*.
CAROL SHAW AUSTAD, Ph.D., North Texas State University; *Associate Professor of Psychology (1987)*.

RICHARD T. AVRITCH, M.Ed., Boston University; *Associate Professor of Accounting (1966)*.
STEPHEN A. BACON, Ph.D., University of New Hampshire; *Professor of Mathematics (1970)*.
ROSS J. BAIERA, M.A., Ohio University; *Associate Professor of English (1967)*.
ABNER S. BAKER III, Ph.D., University of Oregon; *Associate Professor of History (1970)*.
BURT R. BALDWIN, Ph.D., Boston College; *Professor of Sociology (1972)*.
JOSEPH K. BANNON, C.P.A., M.B.A., Boston University; *Assistant Professor of Accounting (1974)*.
BARBARA T. BARD, Ph.D., New York University; *Professor of Special Education (1968)*.
LINDA BARILE, M.S.N., University of California; *Associate Professor of Nursing (1987)*.
ANDREW W. BARON, Ed.D., University of Maryland; *Assistant to the Dean, School of Technology, and Professor of Industrial Technology (1969)*.
STUART BARNETT, Ph.D., State University of New York-Buffalo; *Assistant Professor of English (1992)*.
CHARLES BASKERVILLE, Ph.D., New York University; *Chairperson, Professor of Physics/Earth Science (1990)*.
MILLICENT BASSETT, M.S., Central Connecticut State University; *Associate Professor of Art (1969)*.
EUGENE BATEN, Ed.D., Harvard University; *Assistant Professor of Management and Organization (1988)*.
ROWLAND BAUGHMAN, D.B.A., George Washington University; *Professor of Management and Organization (1983)*.
TERESA BAY, B.S.C.S., Tel Aviv University; *Assistant Director of Information Systems (1986)*.
JOHN E. BEAN, P.E., M.S., University of Connecticut; *Assistant Professor of Engineering Technology (1991)*.
GREGORY BELANGER, M.S., University of New Orleans; *Assistant Professor of English (1989)*.
STUART R. BENNETT, Ph.D., Texas A & M University; *Associate Professor of Industrial Technology (1980)*.

- DAVID ROBERT BENTZION, M.A., Michigan State University; *Assistant Professor of English (1967)*.
- JAY BERGMAN, Ph.D., Yale University; *Associate Professor of History (1990)*.
- ELDON BERNSTEIN, Ph.D., University of Connecticut; *Assistant Professor of Marketing (1990)*.
- FELTON BEST, Ph.D., The Ohio State University; *Assistant Professor of History (1991)*.
- CHARLOTTE BISSON, M.S., Central Connecticut State University; *Assistant Director of Admissions (1979)*.
- GEORGE M. BLANKENBECKLER, Ph.D., University of Georgia; *Professor of Accounting (1992)*.
- STANISLAUS BLEJWAS, Ph.D., Columbia University; *CSU Professor of History (1974)*.
- DAVID BLITZ, Ph.D., McGill University; *Assistant Professor of Philosophy (1989)*.
- WILLIAM W. BOELKE, Ph.D., University of Connecticut; *Assistant Professor of Mathematics (1964)*.
- RICHARD L. BONACCORSO, Ph.D., University of Connecticut; *Professor of English (1975)*.
- LYNN BONESIO, B.A. Mount Holyoke College; *Assistant Registrar (1990)*.
- CYNTHIA BONONI, M.B.A., University of Hartford; *Assistant Professor of Management Information Systems (1992)*.
- FRED BONVICINI, M.S., Central Connecticut State University; *Residence Hall Coordinator (1980)*.
- MOLLIE H. BORNSTEIN, M.S., Central Connecticut State University; *Professor of Art (1972)*.
- CONSTANCE C. BOSTON, M.S.W., University of Connecticut; *Director, Office of Alcohol and Drug Abuse Prevention (1987)*.
- LAURA BOWMAN, Ph.D., Kent State University; *Assistant Professor of Psychology (1989)*.
- RITA BRANN, B.S., Central Connecticut State University; *Assistant to the Dean of Continuing Education (1992)*.
- GWENDOLINE O. BRATHWAITE, M.S., Central Connecticut State University; *Property and Inventory Control Coordinator (1989)*.
- SHARON BRAVERMAN, M.S., Central Connecticut State University; *Staff Counselor, School of Business (1992)*.
- H. HAINES BROWN, III, Ph.D., Michigan State University; *Associate Professor of History (1968)*.
- WALTON L. BROWN, Ph.D., University of Michigan; *Chairperson, Associate Professor of Political Science (1984)*.
- CHRISTINE P. BUKOWIEC, *Director of Business Services (1964)*.
- PETER A. BUDWITZ, C.P.A./M.S., Bucknell University; *Associate Professor of Accounting (1971)*.
- THOMAS BURKHOLDER, Ph.D., University of Virginia; *Assistant Professor of Chemistry (1992)*.
- RONALD BURNS, B.S., Ball State University; *Instructor in Athletics (1990)*.
- SANDRA FLYNN BURNS, Ph.D., University of Connecticut; *Professor of Earth Sciences and Science Education (1972)*.
- WENDY WILTON BUSTAMANTE, B. S., Central Connecticut State University; *Administrative Assistant to the President (1986)*.
- JAMES BUXTON, M.F.A., University of Pennsylvania; *Assistant Professor of Art (1991)*.
- GLORIA CALIENDO, Ph.D., University of Connecticut; *Assistant Professor of Modern Languages (1991)*.
- THOMAS J. CALLERY, JR., M.F.A., University of Oregon; *Assistant Professor of Theatre (1983)*.
- JOAN M. CALVERT, M.S., Rensselaer Polytechnic Institute; *Assistant Professor of Computer Science (1982)*.
- ANTHONY CANNELLA, M.A., University of Pennsylvania; *Associate Professor of English (1984)*.
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- BARBARA CARMICHAEL, Ph.D., University of Victoria (Canada); *Assistant Professor of Geography (1992)*.
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- STEVEN CAVALERI, Ph.D., Rensselaer Polytechnic Institute; *Associate Professor of Management and Organization (1980)*.
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- ADOLFO CHAVARRO, Ph.D., State University of New York-Stonybrook; *University Ombudsman, Associate Professor of Psychology (1987)*.
- YUANQIAN CHEN, Ph.D., University of Kansas; *Assistant Professor of Mathematical Sciences (1992)*.
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- CELIA C. CHOW, Ph.D., University of Illinois; *Associate Professor of Physics/Earth Science (1968)*.
- PAUL P. CHU, Docteur en Sciences Psychologiques, Universite Libre De Bruxelles; *Associate Professor of Psychology (1969)*.
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- GEORGE F. CLAFFEY, Ed.D., Indiana University; *Associate Professor of Business Education (1979)*.
- JACQUELINE COBBINA, B.A., Central Connecticut State University; *Residence Hall Director (1992)*.
- SARAH COBRAIN, M.A., Bowling Green University; *Assistant Director, Career Services and Cooperative Education (1965)*.
- PENELOPE N. COE, Ph.D., Brandeis University; *Associate Professor of Mathematics (1966)*.
- FAYE COHEN, M.S., Central Connecticut State University; *Assistant Professor of Business Education (1965)*.
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- JOHN D. CONWAY, Ph.D., University of Connecticut; *Associate Professor of English (1969)*.
- DOROTHY COOK, Ph.D., University of Connecticut; *Professor of English (1973)*.
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- ROBERTA L. DAVIS**, M.A., Clark University; *Associate Professor of Biological Sciences (1965)*.
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- MARC B. GOLDSTEIN**, Ph.D., University of Michigan; *Professor of Psychology (1978)*.
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- ERIC H. HARTLEB**, M.S., Central Connecticut State University; *Associate Registrar* (1969).
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- FAITH HENTSCHEL**, Ph.D., Yale University; *Associate Professor of Art* (1983).
- RAMON L. HERNANDEZ**, M.S., Central Connecticut State University; *Assistant Director, Advising Information Services* (1988).
- ELIZABETH HICKS**, M.S., Southern Connecticut State University; *Associate Director, Advising Information Services* (1978).
- JANE HIGGINS**, M.Ed., University of Missouri; *Director of Residence Life* (1980).
- JUNE B. HIGGINS**, Ph.D., University of Rochester; *Associate Dean, Arts and Sciences and Professor of Psychology* (1970).
- WHARTON P. HINDS**, M.S., New York University; *Assistant Professor of Management Information Systems* (1979).
- ALLAN M. HIRSH**, M.A., Tulane University; *Associate Professor of English* (1965).
- PAUL A. HOCHSTIM**, Ph.D., New York University; *Professor of Sociology* (1966).
- MARY JANE HOGAN**, M.S., Central Connecticut State University; *Coordinator of Special Events* (1982).
- ROBERT R. HOLLANDER**, Ph.D., Texas Tech University; *Assistant Professor of Biological Sciences* (1991).
- DENNIS HOLT**, Ph.D., University of California; *Assistant Professor of English* (1992).
- STEPHEN HOROWITZ**, Ph.D., University of Utah; *Assistant Professor of Psychology* (1991).
- MARILYN HOTT**, M.A., New York University; *Associate Professor of Teacher Education* (1968).
- MAXINE HOWELL**, M.A., Adelphi University; *Assistant Professor of Teacher Education* (1990).
- JUDITH A. HRICENIAK**, Ph.D., University of Connecticut; *Chairperson, Professor of Nursing* (1973).
- A. PABLO IANNONE**, Ph.D., University of Wisconsin; *Chairperson, Professor of Philosophy* (1983).
- LOFTUS JESTIN**, Ph.D., Yale University; *Chairperson, Professor of English* (1973).
- LOIS B. JOHNSON**, B.A., Southern Connecticut State University; *Manager of Personnel Services* (1992).
- LOUISE B. JOHNSON**, M.F.A., Ohio University; *Chairperson, Professor of Theatre* (1968).
- LYNN JOHNSON-CORCORAN**, M.L.S., University of Rhode Island; *Associate Librarian, Catalog Librarian* (1977).
- THELMA JOHNSON**, Ed.D., Southern Illinois University; *Associate Professor of Educational Leadership* (1989).
- CAROL A. JONES**, Ph.D., University of Surrey; *Associate Professor of Chemistry* (1989).
- CHARLES JONES, JR.**, M.S., Central Connecticut State University; *Director of Educational Support Services* (1970).
- WILLIAM C. JONES, JR.**, Ph.D., Purdue University; *Professor of Computer Science* (1969).
- JAMES F. JOST**, M.S., Central Connecticut State University; *Associate Dean of Student Affairs* (1971).
- EDDIE JOYCE**, M.S., Southern Connecticut State University; *Assistant Professor of Teacher Education* (1969).
- YANAN JU**, Ph.D., University of Belgrade; *Professor of Communication* (1991).
- ELIAS KAPETANOPOULOS**, Ph.D., Yale University; *Professor of History* (1968).
- MARTIN A. KAPPER**, Ph.D., Louisiana State University; *Assistant Professor of Biological Sciences* (1992).
- PAUL KARPUR**, Ph.D., University of California; *Assistant Professor of Modern Languages* (1992).
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- LAURA KEEZING**, B.A., Drew University; *Assistant to the Vice President for University Affairs* (1989).
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- DIX J. KELLY**, M.S., Central Connecticut State University; *Associate Professor of Mathematics* (1964).
- WALTER A. KENDRA**, M.A., Columbia University; *Associate Professor of Art* (1978).
- DAVID A. KIDCKEL**, Ph.D., University of Massachusetts; *Chairperson, Professor of Anthropology* (1977).
- KI HOON KIM**, Ph.D., University of Connecticut; *Professor of Economics* (1967).
- SARAH S. KING**, Ph.D., University of Southern California; *Professor of Communication* (1984).
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- BRADLEY P. KJELL**, Ph.D., University of Wisconsin; *Assistant Professor of Computer Science* (1992).
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- JOYCE KOTSAFTIS**, S.Y.C., Central Connecticut State University; *Instructor in Reading and Language Arts* (1992).
- ADRIENNE W. KOZLOWSKI**, Ph.D., University of Connecticut; *Professor of Chemistry* (1970).
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- ROBERT S. LANG**, M.S., Central Connecticut State University; *Associate Professor of Engineering Technology* (1977).
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- KRISTINE LARSEN**, Ph.D., University of Connecticut; *Assistant Professor of Physics/Earth Sciences (1989)*.
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 Teresa DeJesus, Custodian
 Hayg Der Aprahamian, Custodian
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 Robert M. LeBaron, Associate Director

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 Toddnie A. Cherry, Sergeant
 Peter T. Eshoo, Sergeant
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Willard

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Student Center

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Leadership Development

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Ronald "Duffy" Burns, Women's Basketball Assistant Coach
Salvatore P. Cintonino, Head Football Coach
Youal Eichouzadeh, Custodian
Shaun Green, Head Soccer Coach
John J. Keleher, Men's Cross Country and Track Head Coach
Claudia A. Lee, Volleyball Head Coach
Ken Pringle, Head Softball Coach
Geogre Redman, Head Baseball Coach
Brenda A. Reilly, Women's Basketball Head Coach
Ned T. Skinner, Swimming Head Coach
Victor Stone, Tennis Head Coach
Stephen P. Villanti, Assistant Football Coach
Theodore W. Woodward, Assistant Basketball Coach

Carl F. Krein, Head Athletic Trainer
Katherine B. Pirog, Assistant Athletic Trainer

Herman G. Johnson, Maintainer
Joseph Vigdorichik, Material Storage Supervisor

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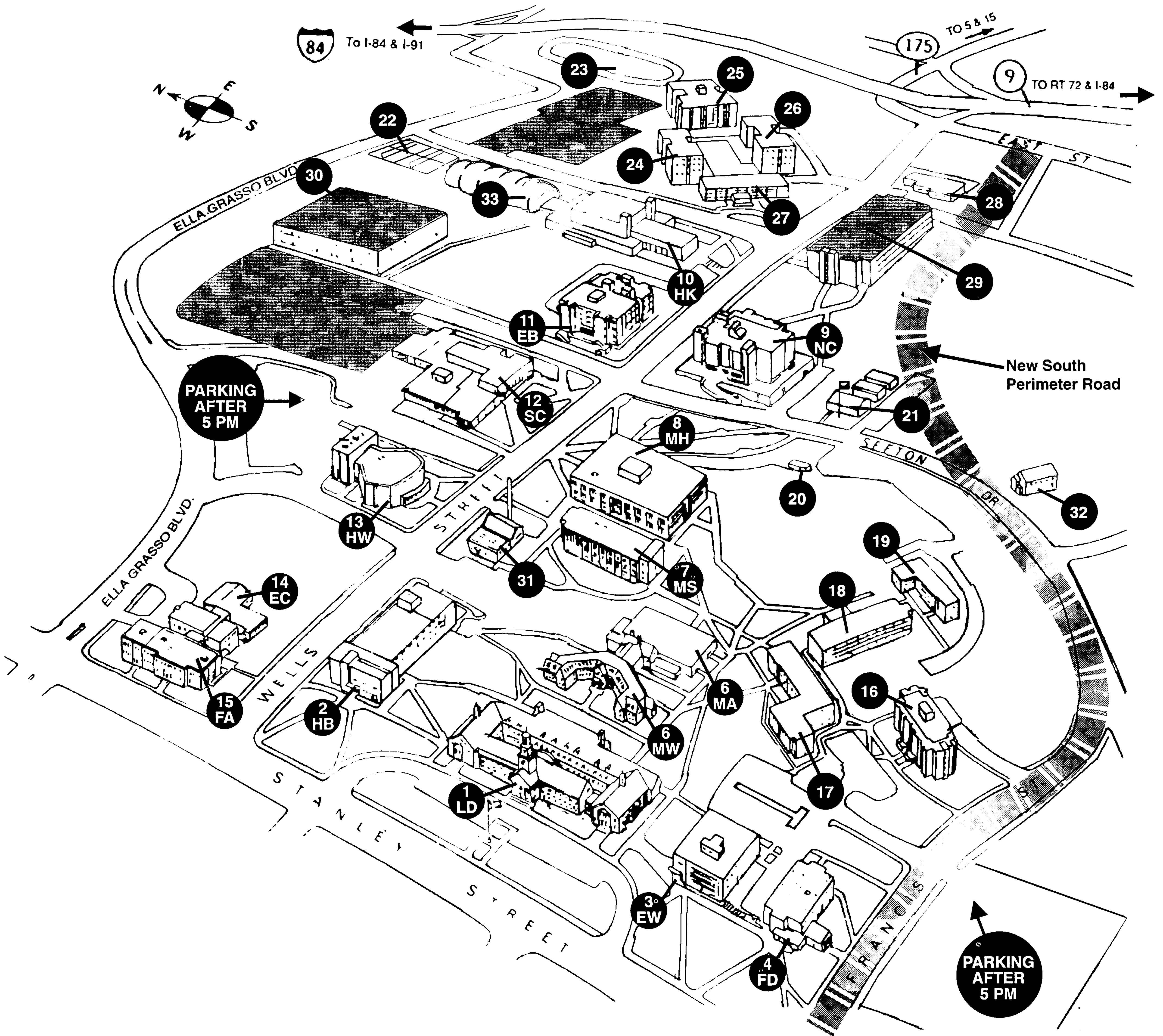
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LEGEND

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| 2. Barnard Hall (HB) | 14. Early Childhood Center (EC) | 26. Sheridan Hall |
| 3. Willard Hall (EW) | 15. Maloney Hall (FA) | 27. Sam May Hall |
| 4. DiLoreto Hall (FD) | 16. Barrows Hall | 28. East Hall (Maintenance /Receiving) |
| 5. Marcus White Hall (MW) | 17. Carroll Hall | 29. Wells Street Parking Garage |
| 6. Marcus White Hall Annex (MA) | 18. Beecher Hall | 30. North Parking Garage |
| 7. Sanford Hall (MS) | 19. North Hall | 31. Power Plant |
| 8. Memorial Hall (MH) | 20. Student Activities Storage | 32. Newman House |
| 9. Copernicus Hall & Observatory (NC) | 21. University Police | 33. Kaiser Annex (The Bubble) |
| 10. Kaiser Hall (HK) | 22. Tennis Courts | |
| 11. Burritt Library (EB) | 23. Arute Field | |
| 12. Student Center (SC) | 24. Gallaudet Hall | |

 Student Parking at all times

The New South Perimeter Road is under construction, and is scheduled to be completed in Fall 1994.

DIRECTIONS TO CCSU

FROM THE EAST

I-84 West to Exit 39A to Rt. 9 South. Take Exit 29 off of Rt. 9 to Ella Grasso Blvd. and take right turn to University. Alternate Route: Take I-84 West to Exit 40 (Corbins Corner) left at end of exit ramp, right at next traffic light onto Rt. 71 South. Follow Rt. 71 South 3 miles to University.

FROM THE WEST

I-84 East to Exit 39A to Rt. 9 South, take Exit 29 off of Rt. 9 South to Ella Grasso Blvd. and take right to the University. Alternate Route: Take I-84 East to Exit 35, Rt.72 East (New Britain Exit). Follow 72 to Cedar St. At light, take left turn to next light and take right turn to University

FROM THE NORTH

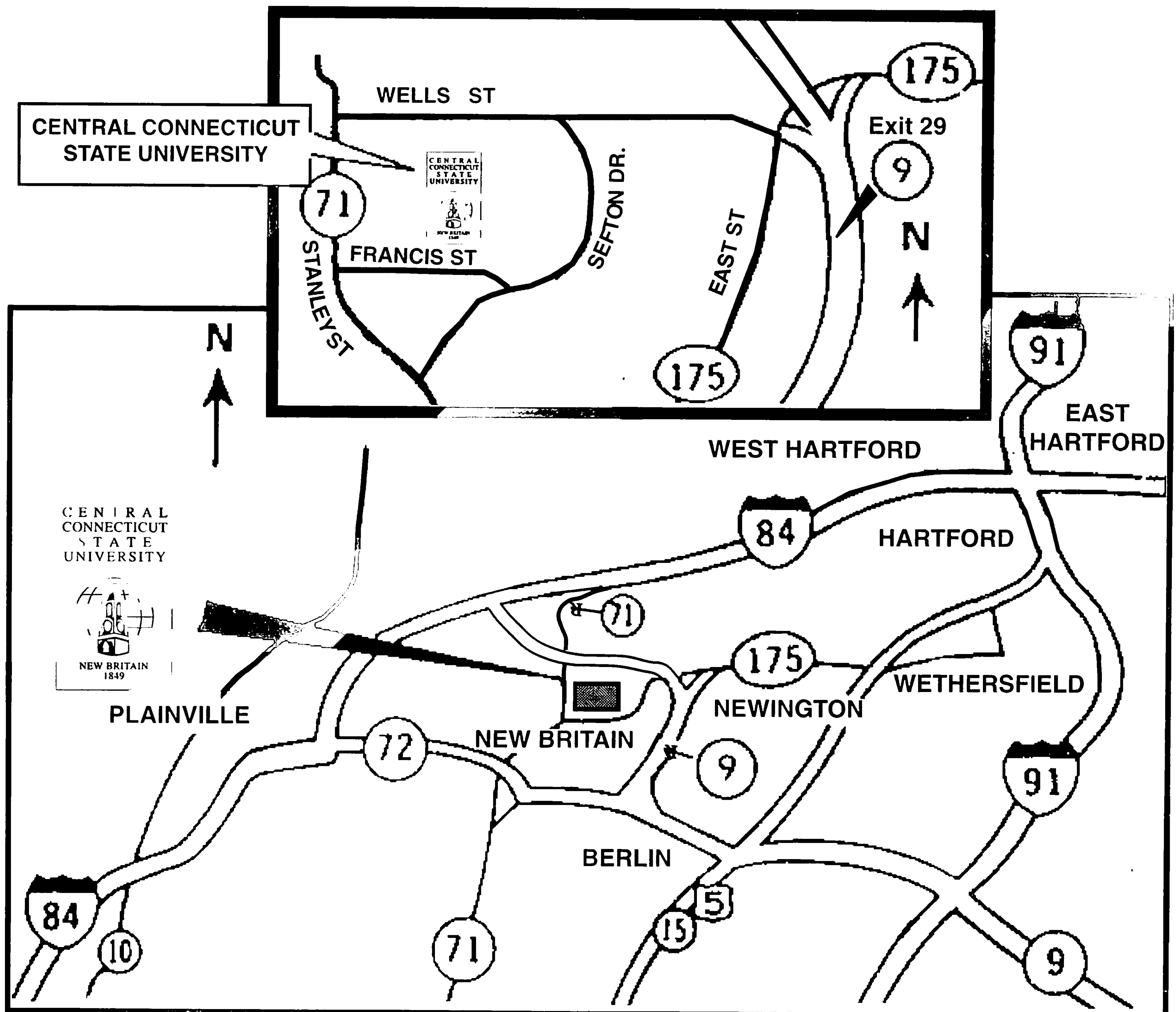
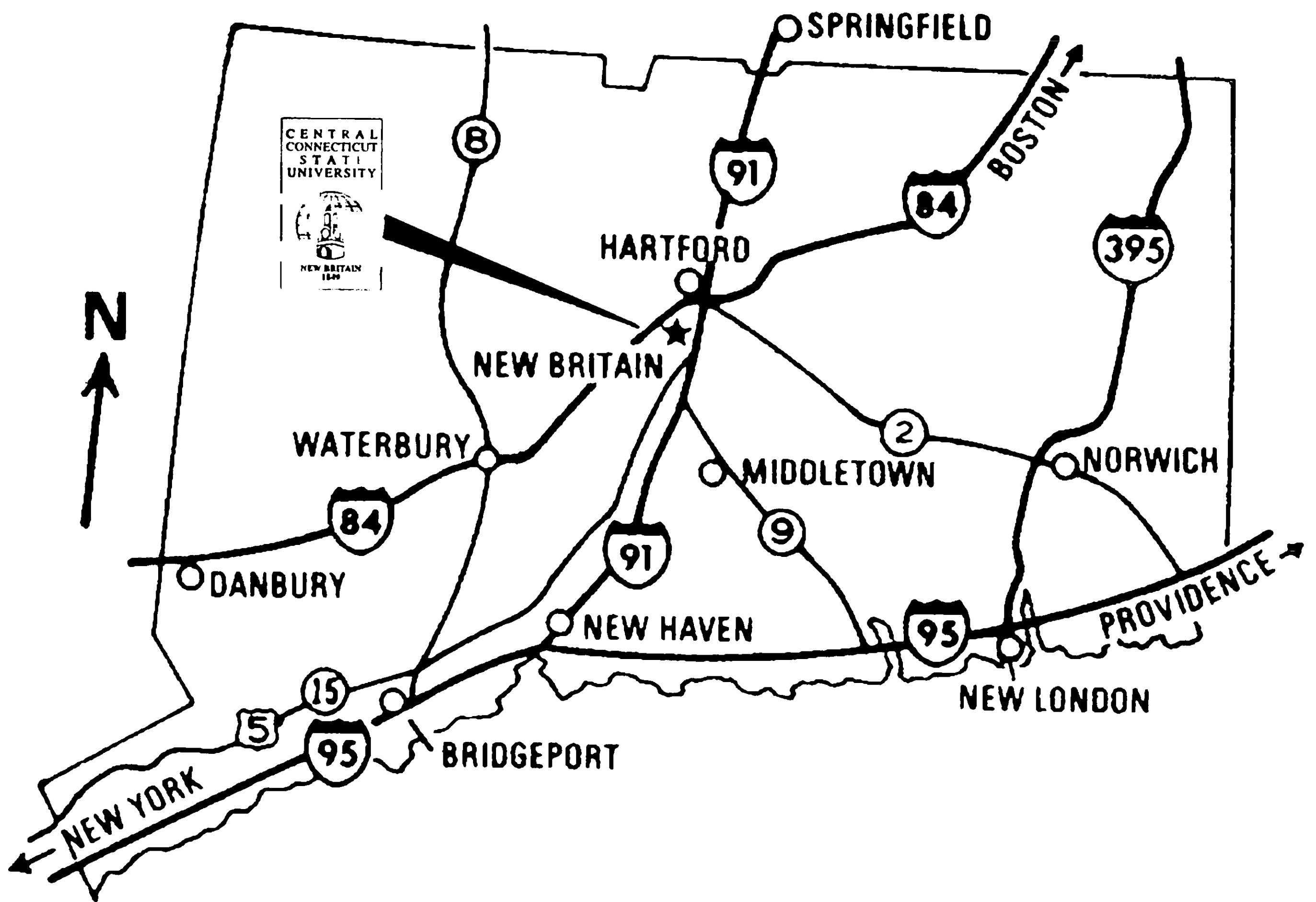
Rt. 91 South to I-84 West to Exit 39A to Rt 9 South. Take Exit 29 off Rt. 9 South to Ella Grasso Blvd. and take right turn to University. Alternate Route: I-91 South to I-84 West to Exit 40, (Corbins Corner), left at end of exit ramp, right at next traffic light onto Rt. 71 South, 3 miles to University.


FROM THE SOUTH

(New York area): I-95 North to I-91 North to Exit 22 North to Rt. 9 North to Exit 29, Cedar St. (Rt. 175). At traffic light at end of ramp, take left to next light, take right to University.

FROM THE SOUTH

(Rhode Island area): I-95 South to Rt. 9 (Old Saybrook). Take Rt. 9 North to Exit 29, Cedar St. (Rt. 175). At traffic light and end of ramp, take left to next traffic light, take right turn to University.





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