

J E FOX

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Central Connecticut State University
Established 1849, New Britain, Connecticut

Undergraduate Catalog 1995-1997



A Campus of the Connecticut State University System

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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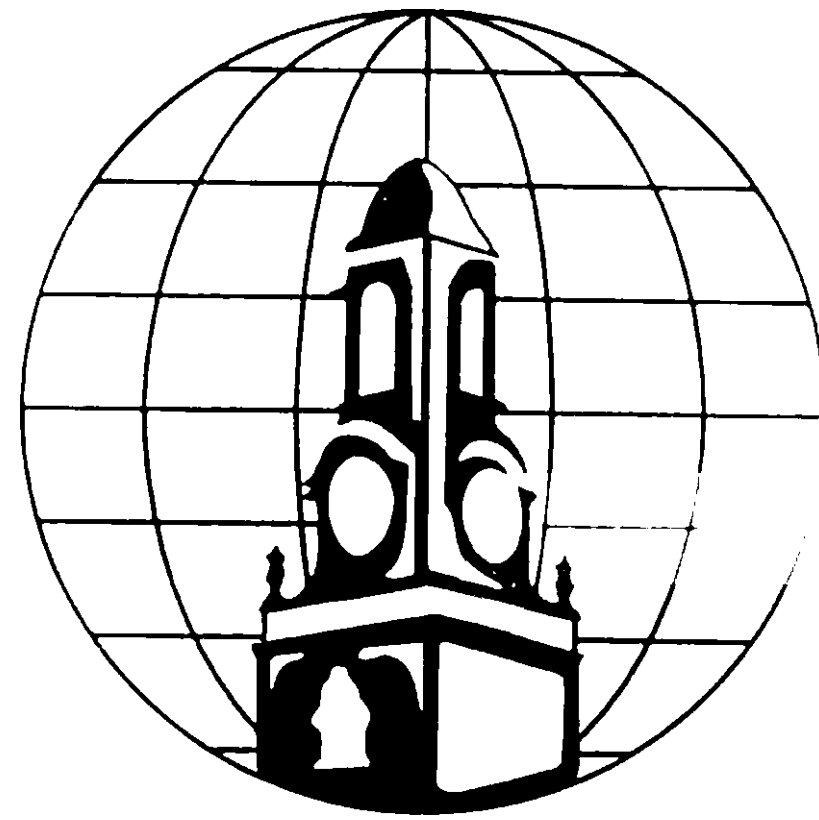
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CONNECTICUT STATE UNIVERSITY • P.O. Box 2008 • New Britain, Connecticut 06050

Cover: Adapted by Central Design from the original 1923 architectural blueprint of Lawrence J. Davidson Hall

CENTRAL
CONNECTICUT
STATE
UNIVERSITY



NEW BRITAIN
1849

CENTRAL CONNECTICUT STATE UNIVERSITY

New Britain, Connecticut 06050

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

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Academic Deans		Registrar	832-2235
School of Arts and Sciences	832-2600	Residence Life	832-1660
School of Business	832-3205	Student Center	832-1960
School of Education and Professional Studies	832-2100	Student Development Center	
School of Technology	832-1800	Advising Center	832-1615
Bookstore	832-BOOK	Career Services and Co-operative Education	832-1630
Counseling (personal)	832-1945	Educational Support Services	832-1900
Enrollment Center	832-2255	Transcripts	832-2244
Financial Aid	832-2200	University Police	832-2375
Graduate School	832-2350	Veterans Services	832-1785
Library	832-2055	For all numbers not listed above	832-3200

Send Inquiries to: Director of Admissions
 Central Connecticut State University
 P. O. Box 4010
 New Britain, CT 06050-4010
 FAX: 832-2261

ACCREDITATION AND MEMBERSHIPS

The University is accredited by the New England Association of Schools and Colleges, the Connecticut State Department of Higher Education, and the Connecticut Department of Education (certification programs in education). Programs in chemistry are accredited by the American Chemical Society. The Computer Science program is accredited by the Computing Sciences Accreditation Board. 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, and the Bachelor of Science in Nursing program is accredited by the National League for Nursing. The Council on Social Work Education has accredited the baccalaureate social work program, and the Council on Accreditation of Nurse Anesthesia Programs has accredited the master's degree in biological sciences, nurse anesthesia specialization.

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 1995-97

Fall Semester 1995

August 28	Academic Year begins
August 31 -	Faculty Meetings, Orientation
September 1	
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 18	Last to withdraw with 60% refund*
September 25	Last day to declare Pass/Fail or Audit options
September 27	Last day to drop first eight-week courses
October 2	Last-day to withdraw with 40% refund*
October 20	Reading Day - no day or evening classes
October 24	Midterm: Last day to drop full-semester courses;
October 25	First eight-week courses end
November 1	Second Eight-week courses begin
	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 15	Day classes end
December 16	Last class meeting for Saturday classes
December 18-22	Examinations

Winter Session 1996

January 2	Winter session classes begin
January 15	Martin Luther King Day Holiday
January 19	Winter session 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
February 2	Last day to withdraw with 60% refund*
February 10	Last day to declare Pass/Fail or Audit options
February 13	Last day to drop first eight-week courses
February 16	Lincoln's Birthday Holiday <i>NO CLASSES</i>
February 19	Washington's Birthday Holiday <i>NO CLASSES</i>
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 (make-up day, if needed) No day or evening classes
May 13-17	Examinations
May 18	Last class meeting for Saturday classes
May 25	Undergraduate and Graduate 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

Fall Semester 1996

August 26	Academic Year begins
	Faculty Meetings, Orientation
August 30	Last day to withdraw with 100% refund*
September 2	Labor Day Holiday
September 3	Classes begin 8 a.m.
August 3 - 6	Drop/Add period
September 16	Last to withdraw with 60% refund*
September 23	Last day to declare Pass/Fail or Audit options
September 26	Last day to drop first eight-week courses
September 30	Last-day to withdraw with 40% refund*
October 18	Reading Day - no day or evening classes
October 22	Midterm: Last day to drop full-semester courses; First eight-week courses end
October 23	Second Eight-week courses begin
November 1	Final date for undergraduates to apply for May or August 1997 graduation; Office of the Registrar
November 15	Last day to drop a second eight-week course
November 26	Thanksgiving Recess begins 10 p.m.
December 2	Thanksgiving Recess ends 8 a.m.
December 13	Day classes end
December 14	Last class meeting for Saturday classes
December 16-20	Examinations
December 20	Semester Ends
December 23	Make-up Day (if needed)

Winter Session 1997

January 6	Winter session classes begin
January 20	Martin Luther King Day Holiday
January 24	Winter session classes end

*Applies to full-time students only. Part-time students, please refer to Continuing Education Semester Bulletin.

Spring Semester 1997

January 21	Academic Semester begins
January 24	Last day to withdraw with 100% refund*
January 27	Classes begin 8 a.m.
January 27-30	Drop/add period
February 7	Last day to withdraw with 60% refund*
February 14	Lincoln's Birthday Holiday
February 17	Washington's Birthday Holiday
February 18	Last day to declare Pass/Fail or Audit options
February 21	Last day to drop first eight-week courses
February 25	Last day to withdraw with 40% refund*
February 28	Final Date for graduate students to apply for May 1997 degrees; Graduate School
March 18	Mid-term: Last day to drop full-semester courses; First eight-week courses end
March 19	Second eight-week courses begin
March 22	Spring Recess begins 1:30 p.m.
March 31	Spring Recess ends 8 a.m..
April 18	Last day to drop second eight-week courses
May 1	Final day for undergraduates to apply for December 1997 graduation (Registrar's Office)
May 13	Day classes end
May 14	Reading Day (make-up day if needed) No day or evening classes
May 15-21	Examinations
May 17	Last class meeting for Saturday classes
May 21	Semester Ends
May 24	Undergraduate and Graduate Commencement

Summer Session 1997

May 27	First five-week session begins
	Eight-week session begins
June 27	First five-week session ends
June 30	Second five-week session begins
July 4	Independence Day Holiday
July 18	Eight-week session ends
July 31	Second five-week session ends

FA 97	8/29	100%
	9/15	60%
	9/29	40%
<hr/>		
SP 98	1/23	100%
	2/06	60%
	2/24	40% (13 th /16 th NO CLASSES)

*Applies to full-time students only. Part-time students, please refer to Continuing Education Semester Bulletin.

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 30-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 5,600 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 Office 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.

Our Mission

Our University exists to serve students. With learning as the heart of all our activities, our fundamental responsibility is to empower students to attain the highest standards of academic achievement, public service and personal development.

Preparing students for enlightened and productive participation in a global society is our obligation; it is best fulfilled by blending the traditional liberal arts with dynamic professional education. Effective teaching, our primary function, requires that each member of our faculty have an active scholarly and professional life. And our programs and activities must be infused with a rich multicultural perspective.

Our designation as a state-wide Center for Excellence in international education and in technology makes our University distinctive. We must nurture and develop these programs as a special component of our mission. The partnership we have created with the people and institutions of Connecticut, especially those of the capital region, benefits both the University and the State. This partnership defines us as a metropolitan university, and endows our teaching and scholarship with a special vitality and a distinctive dedication to service.

Most importantly, we value: *quality* in all that we do and a commitment to constant improvement; *intellectual integrity* in the process of teaching, learning and administration; and *openness* to the discussion and debate of all points of view in an atmosphere of civility and a dedication to the traditions of academic freedom.

Equally, we value *participation* by the faculty, students, staff, alumni and friends of the University in the formulation of policy and the making of major decisions about the University's future and *respect* for the dignity, rights and aspirations of each member of our University's community.

Guided by these principles and values, we aspire to become one of the best public metropolitan universities in the nation and the finest in New England.

The University is accredited by the New England Association of Schools and Colleges (NEASC), the Connecticut State Department of Higher Education, and the Connecticut Department of Education (certification programs in education). In addition, Chemistry programs are accredited by the American Chemical Society, the Computer Science program by the Computing Sciences 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). The Council on Social Work Education has accredited the baccalaureate social work program, and the Council on Accreditation of Nurse Anesthesia Programs has accredited the master's degree in biological sciences, nurse anesthesia specialization.

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 located in Davidson Hall 124, 832-3025.

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 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 School. 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.

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 Balf-Savin baseball field, a 37,000-sq. ft. recreational/athletic air-supported structure, tennis courts and fields for soccer, 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 Enrollment Centre and 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 210 men and women in a smoke-free building. **Mildred Barrows Hall** (1971) houses 227 women. **Seth North Hall** (1957) contains 62 student rooms for 120 men and women. **Catherine Beecher Hall** (1963) houses 145 men. **Samuel May Hall** (1963) houses 166 men and women in a building with extended quiet hours. **Robert E. Sheridan Hall** (1967), a five-story residence hall for 226 women, is projected to be closed for renovations during the 1995-1996 academic year. **Thomas A. Gallaudet Hall** (1969) is a six-story residence hall for 281 men and women. **Robert Vance Hall** (1970) houses 201 men and women in single occupancy rooms. **F. Don James Hall** (1995) houses 414 upper division men and women in suites.

All residence halls have rooms for studying, reading, and laundry and kitchen 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 a Connecticut Center for Excellence in International Affairs in 1986. The International Affairs Center (IAC) in Burritt 102 is responsible for coordinating international education at the university and serves as the secretariat for the International and Area Studies Committee (IASC) which has responsibility for the BA/BS and MS programs in International Studies. The IAC provides opportunities for faculty to develop their international expertise and for students to study abroad on exchange, teach, work or take courses taught abroad. IAC staff have responsibility for counseling all international students at CCSU.

Through a network of liaison institutions worldwide, the IAC facilitates student and faculty exchanges. It also acts as a host for visiting international scholars in residence and, through the IASC, sponsors each year a series of lectures and discussions on international topics. Other

outreach efforts to off-campus communities include the International Festival every April and various international studies programs for high school students and teachers.

The IAC also has responsibility for coordinating education in CCSU's overseas instructional programs, and serves as the administrative home for the Intensive English Language Program and the School for International Studies, the latter a joint summer program for high school students with the Capital Region Educational Council.

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 academic 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 Program** (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 IELP also offers TOEFL preparation courses and institutional TOEFL testing five times a year.

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.

The **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 Center for Industrial and Engineering Technology at 185 Main Street in New Britain, operates in conjunction with the New Britain Chamber of Commerce and the University of Connecticut. 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.

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 **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 Education** 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.

School of Technology Center

The **Institute for Industrial and Engineering Technology (IIET)** is the outreach function of the School of Technology. Located at 185 Main St. in downtown New Britain, 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 a Human Resource Development center and a procurement technical assistance center.

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 of this catalog.

Special Facilities

The **CCSU Information Services Department** (Henry Barnard Hall) coordinates computer facilities for student use in education, research, and other academic pursuits.

The **Microcomputer Lab** in the Marcus White Annex is our primary data center for students. Here students can find an abundance of networked PC microcomputers, remote terminals which can connect to CCSU's mainframe computer, specialized workstations for scientific computing, and a large number of available laser printers. The networked PCs offer a diverse set of the most popular up-to-date commercial and academic software. There is also an additional networked PC microcomputer lab available to students and faculty in **F. Don James Hall**.

The **Macintosh Lab** on the 3rd floor of Henry Barnard Hall is another computer facility available to day and evening students. It provides a large variety of Macintosh computers, software, printers, and scanners for general student and faculty use. There is also an additional networked Macintosh microcomputer lab available to students and faculty in **F. Don James Hall**.

Students must complete mandatory training classes in the basic use of these computers before being granted 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.

Students and faculty may also avail themselves of the large number of free training classes Information Systems offers throughout the semester on the use of many PC, Macintosh, mainframe, and Internet software packages. Self-paced, computer-aided instruction is also available to supplement or substitute for the training classes.

All students may apply for access to the mainframe computer and are encouraged to request a computer account and attend the training. CCSU is also part of the 'Information Superhighway' through its participation in the international network of computers called the **Internet**. Through this service students may communicate with universities, research centers, commercial enterprises, and individuals 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, 832-1665), 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 832-1665 or drop in. Both men and women are welcome.

DIVISION OF ENROLLMENT SERVICES

Dr. H. A. Salahu-Din, Associate Vice President for Academic Affairs and Dean of Enrollment Services, (203) 832-2215

Conceptualized in Central Connecticut State University's 1992-97 strategic plan and implemented in 1993, the Division of Enrollment Services serves the University and its students by helping to establish seamless processes and assisting students, faculty, and other members of the University's community to address enrollment issues. The Division – Admissions and Records, Enrollment Center and Continuing Education, Financial Aid – is committed to clear communication and effective coordination to support the University community.

UNDERGRADUATE ADMISSION

Charlotte Bisson, *Director*
Barbara Lukas, *Associate Director*
Michael Ansarra, *Assistant Director*
Lawrence Hall, *Assistant Director*
Molly Borst, *Admissions Representative*
Phone (203) 832-CCSU

Central Connecticut State University welcomes applicants from a broad range of abilities, interests, and backgrounds. Our admissions process is designed to evaluate the academic readiness of applicants for undergraduate study. Students are admitted to either full time (12 hours or more) or part time (11 hours or less) study and applications are accepted to both the Fall and Spring semesters. All applicants must be graduates of accredited high schools/preparatory schools or holders of an equivalency diploma.

To be considered for full time or part time admission, applicants should submit the completed Application for Undergraduate Admission, a non-refundable \$20.00 application fee, and all required supporting credentials by the specified deadlines. Fall semester candidates should submit applications by May 1; Spring semester candidates by November 1. There is a separate application and application process required of international students. See catalog section on International Student Admissions.

Applicants will be notified by mail of acceptance to the University. Central Connecticut State University has a rolling admission process.

An Application for Undergraduate Admission may be obtained from Connecticut high schools, the University's Office of Admissions, or the University's Enrollment Center.

The application fee may be waived if a waiver form is submitted by one of the following: 1) a recognized Talent Search or Upward Bound agency such as Career Beginnings, 2) The College Board, or 3) CONNTAC. All decisions regarding fee waivers must be approved by the Director of Admissions. All credentials submitted by the applicant become part of the student's permanent University record and are not returned.

Admissions Advising

The Admissions Office is open daily Monday through Friday. It is located in the southwest corner of Davidson Hall, Room 115. Students and parents are encouraged to visit the campus for individual counseling and advisement. Admissions counselors are available for consultation concerning educational plans at Central Connecticut State University. Appointments may be scheduled by calling (203) 832-CCSU, or by writing to the Admissions Office. Campus tours are also available. All correspondence and inquiries concerning undergraduate admission to the University, both full and part time, first-year, transfer, re-entry, and international should be addressed to the **Office of Admissions, Central Connecticut State University, P.O. Box 4010, 1615 Stanley Street, New Britain, CT, 06050-4010.**

First-Year Student Admissions

Admission to Central Connecticut State University for first-year (freshmen) students may be offered to qualified graduates of accredited high schools or preparatory schools or to holders of an equivalency diploma. First-year applicants should complete the Application for Undergraduate Admission and then submit it to their secondary school guidance counselor or principal. The guidance counselor or principal should then attach the applicant's high school record-to-date with an estimate of the applicant's rank in the graduating class, any Scholastic Aptitude Test I (SAT I) scores, and letters of recommendation, and submit the application packet to the Admissions Office. First-year Students are required to submit scores from the Scholastic Aptitude Test I (SAT I). Hand-carried or student copies of credentials are not accepted as official. Alien residents should submit a copy of their green card.

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

- **English** (four units) - Courses should emphasize writing skills, literature, and reading comprehension.
- **Mathematics** (three units) - desired sequence should include Algebra I, Geometry, and Algebra II. A fourth unit in trigonometry, analytical geometry, or pre-calculus is recommended for students planning to take calculus at CCSU.
- **Science** (two units) - courses should include one unit of a laboratory science.
- **Social Sciences** (two units) - courses should include one unit of United States History.
- **Foreign Language** - Three years in the same language is recommended.

Students whose preparation does not follow this pattern may still qualify for admission if there is other strong evidence that they are prepared for college studies. Applicants who are not graduates of a secondary school, should submit their secondary school transcript up to the time of withdrawal and a copy of their high school equivalency diploma and scores.

Decisions are based on the applicant's secondary school record, rank in class, and scores on the Scholastic Aptitude Test I. For some applicants, an interview with a representative of the Admissions Office may be necessary. It is desirable that applicants rank in the top half of their high school graduating class, present at least a C average in each of the five college preparatory areas, and obtain at least 480 on the verbal portion and a 450 on the math portion of the Scholastic Aptitude Test I, if taken after April 1, 1995.

The Scholastic Aptitude Test I (SAT I) of the College Entrance Examination Board (CEEB) is required of all First-Year Student applicants. Applicants should arrange to take the test through their high school guidance counselor. Information for the test can be obtained from their high school or by contacting **College Board Admissions Testing, P.O. Box 6200, Princeton, NJ 08541-6200, telephone (609) 771-7760**. Applicants should have the test results sent from CEEB to the Admissions Office. **CCSU's CEEB code is 3898**. In special cases, the submission of SAT I 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).

Students with Special Needs are encouraged to register for Plan A of SAT I which allows for extended time as well as special accommodations. Information relating to the Admissions Testing Program for Disabled Students may be obtained by writing to Educational Testing Service, ATP Services for the Disabled, P.O. Box 6226, Princeton, NJ 08541-6226, telephone (609) 771-7137. (Also see catalog section: Special Student Services.)

Advanced Placement (AP): CCSU accepts for college credit, Advanced Placement (AP) courses taken in high school under the auspices of the College Entrance Examinations Board's Advanced Placement Program, provided the student scores a minimum of 4 or 5 on the test. Official scores should be submitted for consideration. When credit is awarded, it is entered on the student's college 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 prior to graduation from high school. Students should be recommended by their high school principal and approved by a CCSU department chair for appropriate college course work. For information on enrollment, contact the Office of Continuing Education/ Enrollment Center at (203) 832-2255.

Educational Opportunity Program

The Educational Opportunity Programs (EOP) is Central Connecticut State University's special five week summer program designed for students who have the potential to do college level work, but do not meet CCSU's regular admissions standards. This program is limited to Connecticut residents who have graduated or will be graduating from an accredited Connecticut high school or have attained their General Equivalency Diploma. Students must demonstrate a financial need. EOP is not open to transfer students. Students should make application for the EOP program early since space in the program is limited. Applications for Undergraduate Admission may be obtained from high school guidance offices, or the following University offices: the Admissions Office, the Enrollment Center, or the Office of Educational Support Services. The interest in EOP should be clearly identified on the Application for Undergraduate Admissions.

EOP students spend five weeks during the summer living on campus in CCSU residence halls with all expenses paid including books, tuition, room, and board. Those accepted into the programs are expected to spend weekdays in mathematics, English, reading, study skills, 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 social and cultural activities. EOP students are evaluated halfway through the program and at its conclusion. Graduates of the EOP program are admitted to CCSU as full-time students in good standing. Additional information may be obtained by contacting the Director of Educational Support Services, Memorial Hall, (203) 832-1900.

CONNCAP

Serving selected high school students from New Britain and Waterbury, Central Connecticut State University's Connecticut Collegiate Awareness and Preparation (CONNCAP) program is an Upward Bound-type program aimed at encouraging its students to successfully complete high school and to enroll in college or other post secondary institutions. Working cooperatively with the high schools in both cities, the CONNCAP program provides a range of activities and services to help strengthen a student's academic skills, to provide educational and other enrichment activities, and to increase motivation and desire to succeed. CONNCAP activities take place in the high schools and on campus at CCSU throughout the year.

CONNCAP students are selected for the program in the spring of their eighth grade year. Students who successfully complete four years of the CONNCAP program will be accepted by any of the universities within the Connecticut State University system. The guarantee of freshman admission shall be based on successful graduation from one of the CONNCAP programs and the written recommendation of the sending CONNCAP program director. For more information on the CONNCAP program, contact CCSU's Educational Support Services Office at (203) 832-1900.

Transfer Student Admissions

Transfer students may send applications directly to the Admissions Office. 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 considered unofficial even when they 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 from the university.

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 SAT I. To be considered for transfer admissions, an applicant must have earned a minimum of 12 or more semester hours, not to include remedial work, and have a cumulative college grade point average of 2.0 or higher for all coursework attempted. (Also see catalog section: State Community Technical College Transfers.)

State Community Technical College Transfers

All graduates from transfer programs of the Community Technical Colleges of Connecticut who have earned an associates degree with a minimum 2.0 GPA (cumulative grade point average) 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 degree.

Transfer applicants holding the associate degree from the Board of State Academic Awards (Charter Oak State College) are also admissible to CCSU.

Students considering transferring to CCSU in the second semester are advised to apply well in advance of the date on which classes begin.

International Student Admissions

Academically qualified students from other countries are considered for admission into Central Connecticut State University. International students should complete the **Application for International Undergraduate Admission**. To be considered for admission, a prospective student should submit the completed application, the non-refundable application fee, and all required supporting credentials by the following deadlines: Fall (August - December) semester candidates should submit applications by April 1; Students applying for the spring (January - May) semester should apply by November 1. All credentials submitted by the applicant become part of the student's permanent CCSU file and are not returned. When all information necessary to make a decision has been received, the applicant will be notified by mail of the decision. An Application for international Undergraduate Admission may be obtained from the Admissions Office.

Applicants must submit official copies of their secondary and post-secondary educational records. If records are in a language other than English, then official translations must be submitted as well. Applicants whose native language is not English are required to demonstrate their proficiency in English by submitting a Test of English as a Foreign Language (TOEFL) test score of at least 500. Information on the TOEFL may be obtained from Educational Testing Services, P.O. Box 6151, Princeton, NJ 08541-6151, U.S.A., telephone (609) 771-7243 or 771-7100. Finally, applicants must submit evidence of financial resources adequate for all expenses during the period of undergraduate study. When all the information necessary to make a decision has been received, the applicant will be notified by mail of the decision. (Please see catalog section "Transfer Credit Evaluation" for additional information.)

If accepted, international students must also submit a medical history form and parental consent for medical treatment. CCSU's International Affairs Center is available to help International students while they attend CCSU. Contact the International Affairs Center, Elihu Burritt Library, Room 102, phone (203) 832-2050, fax (203) 832-2047.

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

Transfer Credit Evaluation

The evaluation of official transcripts is done by the Admissions Office after a student has been accepted. Based on official transcripts received to date, this Transfer Credit Evaluation will convert other systems to semester hours and indicate the number of previously earned credits which are acceptable for transfer to Central Connecticut State University. In general, credits from other accredited colleges and universities will transfer, provided that the courses are similar in scope and content to those offered for credit at CCSU and a grade of "C-" or better was earned in the course. Specific questions concerning transfer evaluations should be addressed to the Admissions Office. Please note, regardless of the number of credits transferred, a student must complete a minimum of 45 semester hours at CCSU in order to earn the University's bachelor degree (see catalog section: Academic Standards and Regulations - Residence Requirements for Degree). Students currently enrolled in another college should have their official final transcript submitted to the Admissions Office after their grades have been posted so that their evaluation can be updated. Transferring students are responsible for submitting course descriptions, if requested.

- **Credit by Examination:** A student may earn up to 30 credits at CCSU by examination. Departmentally approved Subject Examinations from the College Level Examination Program (CLEP) of the College Board or from any other nationally recognized standardized examination program will be recognized by CCSU. Official results of such examinations should be submitted for consideration.
- **Credit for Armed Forces:** Credit may also be awarded for military service schools and/or United States Armed Forces Institute (USAFI) credit courses (taken after 1945) if validated by a certified USAFI Center. Official documents should be submitted for consideration.
- **Evaluation of Work Done Outside the United States:** Credit may be awarded for work completed at institutions outside the United States. Students are responsible for submitting international transcripts to an evaluating agency recognized by the National Association of Foreign Student Affairs (NAFSA). After the Office of Admissions has received the agency's evaluation, it will assess the agency's recommendations to determine accreditation and transferability of credit. A minimum grade of "C" must be earned for each course to transfer. For more information on NAFSA recommended agencies, contact the Admissions Office.

Re-Entry Admissions

A student who was formerly matriculated at Central Connecticut State University and subsequently withdrew voluntarily or at the request of the University, must request reactivation of his or her former file in seeking readmission to the University. A Reactivation Request Form may be obtained from the Admissions Office or the Enrollment Center. Criteria for readmission is either 1) the student must be in good academic standing at CCSU as outlined in the Undergraduate Catalog, or 2) the student must have been granted **reinstatement on probation** by the dean of the school the student is attempting to re-enter. Normally, a student must wait at least one semester before being considered for reinstatement. **Students on academic dismissal who are seeking reinstatement as a matriculated student should begin the process by meeting with a counselor from the Office of Admissions.**

Fresh Start Policy

At the discretion of the Dean of Enrollment Services, 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 disadvantages. Students returning to the University for full-time or part-time study after a long interval should consult the Admissions Office.

Guidelines for the Fresh Start Program are:

- a. At least three academic years shall have intervened between the exit from and re-entry to CCSU.
- b. The student shall not have attempted more than 60 semester hours at CCSU.
- c. The student's record will be treated like those of any transfer student.
- d. During the first semester back at CCSU, 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 Admissions Office.

Special Student Services

The Office of Special Student Services assists students with a disability (including visual, hearing, physical, psychological and all forms of learning disabilities) in obtaining the service they need to access a quality education. A wide range of services are available including personal counseling, academic advising, certified sign language interpreting, individualized testing, and priority scheduling. In addition, assistance is provided in securing tutors, readers, attendants, textbooks on tape, accessible on-campus housing, elevator keys, reserved handicapped parking, and classroom relocation if inaccessibility exists.

Academically prepared students with disabilities are encouraged to meet with Dr. George Tenney, director of the Office of Special Student Services, Willard Hall, Room 100, phone (203) 832-1955, TDD (203) 832-1958 for assistance in making application and educational planning. Early application is strongly recommended so that appropriate assistance and consideration may be given. Applicants seeking admission to the fall term should submit applications and credentials by April 1. Applicants for the spring term should submit applications and credentials by November 1. Students with special needs are encouraged to register for Plan A of the SAT I. When applying for admission to Central Connecticut State University, students with learning disabilities should submit additional documentation pertaining to their learning disability. Learning disabled applicants should include the Weschler Adult Intelligence Scale (WAIS). Evaluations should be within a two-year period prior to the time of application.

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 the Continuing Education section of the catalog.

New England Regional Student Program

Central Connecticut State University is a participant in the New England Higher Education Compact. This arrangement offers residents of other New England states the opportunity to enroll at CCSU for academic programs not available at public institutions their home state at the resident tuition rate plus 50 percent. Similarly, Connecticut residents can avail themselves of programs offered by public schools in the other New England states that are not available here in Connecticut public institutions.

For more information about the New England Regional Student Program, contact the Office of the Regional Student Programs, The New England Board of Higher Education, 45 Temple Place, Boston, MA 02111, (617) 357-9620.

Veterans /Reservist/National Guard

Veterans who wish to attend Central Connecticut State University must file an Application for Admission prior to any set deadlines with the Admissions Office and be accepted as a degree seeking student (matriculated). Upon acceptance, the veteran should register with the Office of Veterans Services to apply for V.A. educational benefits. The Coordinator is located in Davidson Hall, Room 109, phone (203) 832-1786. Eligibility for educational benefits last 10 years from the date of separation and, in some instances, depends on whether contributions were made to an educational plan 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. Transfers students need only complete appropriate forms.

Educational assistance is also 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.

V.A. educational benefits are paid at the end of each month during the semester for which the veteran is enrolled. Any change in credit load and/or degree program should 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 (active duty for training not included) 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. A copy of the DD Form 214 is required. Periods of conflict eligible for waivers are:

Vietnam Era (1/1/64 - 7/1/75), Korean Hostilities (6/27/50 - 1/31/55), World War II (12/7/41 - 12/31/46).

Also eligible are veterans who engaged in combat or in a combat-support role in the Grenada Invasion (10/25/83 -

12/15/83), Lebanon Peace-Keeping Mission (9/29/82 -

3/30/84), Invasion of Panama (12/20/89 -1/31/90), or *service*

during Operation Desert Shield and Operation Desert Storm (8/2/90 - 6/30/94).

The 100% tuition waiver for full-time students and the 50% of course fees waiver for part-time matriculant students are available for veterans if they are residents of the state of Connecticut when accepted for admission to CCSU. National Guard and tuition waiver students should contact the Office of Veterans Services (Davidson Hall Room 109, (203) 832-1786).

Medical Exam

All full-time students are required to submit a medical history, current immunization record, and physical examination form signed by a physician. Additionally, if the student is under 18, the parent or guardian must sign for permission for medical treatment. All part-time students are required to submit the necessary immunization requirements in keeping with the policy of the State of Connecticut Department of Health Services.

The completed health form must be returned to University Health Services (Marcus White Annex) prior to the beginning of classes. For more information see the "Student Information" section of the undergraduate catalog or contact University Health Services at (203) 832-1925. The health form is available in the University Health Services.

ENROLLMENT CENTER— CONTINUING EDUCATION AND SUMMER SESSION

Peggy Schuberth, *Associate Dean Enrollment Services/
Director of Continuing Education*

Francis Keefe, *Assistant Dean*

Thomas Eisenlohr, *Assistant Dean*

Rita Brann, *Assistant to the Dean*
(Dept. Phone 832-2255)

Students who choose to undertake or to complete an undergraduate or graduate degree on a part-time basis register for courses at the Enrollment Center/Office of Continuing Education, Willard Hall Lobby.

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.

All CCSU students receive a special Registration Bulletin listing Winter Session and Summer Session courses. Registration for Summer and Winter Session courses takes place at the Enrollment Center – Continuing Education. Summer and Winter Session courses allow you to accelerate your program, make up work, or take advantage of special offerings.

Part-time Matriculant Program

Application for part-time degree study is made in the Office of Undergraduate Admissions, which is located in Davidson Hall (832-CCSU). See catalog section “Admissions.”

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 Office of Financial Aid (832-2200).

Upon a student’s acceptance, transfer credits, if any, are evaluated by the Office of Admissions 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 chair, who in turn will assign the student an adviser.

Attending Other Institutions

Students enrolled at Central Connecticut State University who wish to take courses at other accredited institutions should check course equivalency with the Admissions Office. Students who wish to apply transfer credit to specific degree requirements should seek advice from the appropriate department chair or academic dean as to how the credit may be applied.

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 Enrollment Center, Willard Hall Lobby, is a centralized service center for all students (full or part-time). Students may obtain all forms needed to initiate administrative and academic actions at the Center. The Center’s extended hours of operation are: Monday through Thursday, 8:30 a.m. to 8 p.m., Friday, 8:30 a.m. to 3:45 p.m. and Saturday morning, 8 a.m. to 12 noon (during the academic year).

Course Load and Credits

Part-time undergraduate 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.

Advisement

Undergraduates who plan to work toward a degree and need advice on course selection should consult an adviser in the Enrollment Center 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 Catalog or from the Dean of the Graduate School. Part-time matriculated graduate students are assigned an adviser in their major department upon their admission. Part-time graduate students may register for up to a maximum of 8 credits.

Community and Extension Services

The Office of Continuing Education works in cooperation with the Human Resource Development Center located at 185 Main St., our downtown New Britain campus, to expand 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 also offered.

You may contact the downtown center at 827-4409.

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 1995 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.

Winter Session

During the winter break Central Connecticut State University operates an intensive three-week Winter Session, which begins in late December and 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.

EXPENSES

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

COSTS 1995-96

(1996-97 costs not available at time of printing)

The cost of attending Central Connecticut State for Connecticut residents is \$1,633 per semester. Of this figure, \$958 is for tuition, \$351 is for general fee, \$277 is for State University fee and \$47 is for student activity fee.

Out-of-state students pay a higher tuition and State University fee: \$3,100 and \$681, respectively, per semester.

In addition, students are billed an annual sickness insurance fee of \$285 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 \$1,281 per semester in residence hall fees (including social fee) and \$925-1095 per semester depending on the meal plan selected.

Cooperative Education students pay a Co-op fee of \$200 for each of eight of ten participating semesters (refer to Cooperative Education).

Music students are assessed a special fee (refer to Music Department section).

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 deposit (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 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 \$1281 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 one of several Board Plans. The Board Fee is due July 15 for the fall semester and December 15 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 Deposit Fee, \$90	Non-refundable
Balance of Tuition and Fees	Upon withdrawal from the University, 100% of the balance paid will be refunded prior 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 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. When students withdraw from the residence hall but remain in school, a room refund is not guaranteed unless occupancy of all residence halls remains at 100%. If a refund is given, it will be calculated using the above schedule.
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

Refund of course fee will be made according to the following schedule:

Fall and Spring Semesters:

- 100% of course fee through the first week of classes for a full semester course.
- 50% of course fee through the second and third week of classes for a full semester course.
- NO REFUND AFTER THE THIRD WEEK OF CLASSES.

Courses meeting for eight weeks:

- 100% of course fee through the first week of classes.
- 50% of course fee through the second week of classes.
- NO REFUND AFTER THE SECOND WEEK OF CLASSES.

Courses meeting for fewer than eight weeks:

- 100% of course fee before the first class meeting.
- NO REFUND AFTER THE FIRST CLASS MEETING.

Winter Session:

- 100% of course fee before the first class meeting.
- NO REFUND AFTER THE FIRST CLASS MEETING.

Summer Session:

Courses scheduled for five weeks or longer:

- 100% of course fee prior to the second class meeting
- 50% of course fee prior to the third class meeting.
- NO REFUND AFTER THE THIRD CLASS MEETING.

Courses scheduled for fewer than five weeks and non-credit courses:

- 100% of course fee prior to the first class meeting
- NO REFUND AFTER THE FIRST CLASS MEETING.

Refund checks are sent directly to students. Please allow up to four weeks. Credit card adjustments are credited to the cardholder's account.

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) 832-1630.

Non-refundable Fees

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

Off-Campus Students Rent

Students living off-campus will pay their room rent directly to the landlord. Such students may arrange with the Office of the Cashier for participation in the University Meal 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 Bursar's Office 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

Sources of Financial Aid Assistance

Financial Aid is assistance to students who are unable to meet educational expenses entirely from their own resources. Financial Aid comes in three basic forms:

Grants and Scholarships

Connecticut State University Grants (CSUG) and Connecticut Aid for Public College Student (CAPS) – Eligibility is based on financial need. Amount is determined by the Financial Aid Office.

Federal PELL Grants (PELL) –Eligibility is based on financial need. Award amount is dependent upon qualification for federal funds. Only those students who have not earned a Bachelor's degree are eligible.

Federal Supplemental Educational Opportunity Grant (SEOG) – Eligibility is based on exceptional demonstration of need. Pell Grant recipients have priority. Award amount is dependent upon allocation of federal funds. Only those students who have not earned a Bachelor's degree are eligible.

Employment

Federal Work Study Employment – Eligibility is based on financial need with priority given to early applicants. Students are responsible for obtaining employment on campus. Payment is based upon the number of hours worked and rate of pay.

Loans

Federal Perkins Loan –Available to undergraduate students who meet the financial need requirements.

Interest rate of 5% is applied only after the student terminates college study and has a nine month grace period. Priority is given to early applicants. Award amount is dependent upon allocation of funds available from federal sources.

Direct/Federal Stafford Student Loan – Subsidized (need based) or Unsubsidized (no need) Loan having a variable interest rate loan maximum of 8.25% (Adjusted each July 1) for Subsidized Loans. Interest is applied only after the student terminates college studies and has a six month grace period. For Unsubsidized Loans, interest is applied the day the check is disbursed. Students are responsible for the interest during their enrollment in school.

Direct/Federal PLUS Loan (parent loan) – Parents of dependent students apply for loan. Eligibility is not need based and a good credit history is necessary. Repayment begins 60 days after disbursement of funds. Variable interest rate not to exceed 9%, adjusted each July 1. Parents may borrow cost of education minus other aid.

Additional Unsubsidized Direct/Federal Stafford Loan – Independent undergraduate students and dependent students whose parents have been denied a PLUS loan. Not need based. Interest and repayment terms similar to Direct/Federal Subsidized Stafford Loan.

Additional Resources

- Vocational Rehabilitation
- Veteran Tuition Waiver
- Community Scholarships
- Employer Tuition Reimbursement

Basic Eligibility Criteria

A student must:

- be a U.S. citizen or eligible noncitizen
- be registered with Selective Service (if required)
- be matriculated (formally accepted by the Office of Admissions)
- be making satisfactory academic progress
- not owe a refund on a Federal Grant or be in default on a Federal educational loan.

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 Bachelors 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

semester 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 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 shall count on a semester-hour equivalent basis determined by the University as a part of the 24 or 12 semester hours specified above. Failed courses or audited courses will not be counted. Students will not be eligible for financial assistance for 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 or 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 shall count on a semester-hour equivalent basis determined by the University as part of the 12 or 6 semester hours specified above. Failed courses or audited courses will not be counted. Students will not be eligible for assistance for 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 not be eligible for financial assistance for more than 4 semesters of full-time attendance or until the student is certified for graduation 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 a 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 for the fall or summer term. Failed courses or audited courses will not be counted. Students will not be eligible for assistance for more than 8 semesters of part-time attendance or until the student is certified for graduation by the University, whichever comes first.

The Satisfactory Academic Progress Policy will be implemented as follows.

- A. For the purposes of this policy, Satisfactory Academic Progress will be measured against credits earned during the prior academic year (September through May).
- B. The number of credits required are as follows:
 - **Undergraduate:**
Full-time, 12 credits per semester
Part-time, 6 credits per semester
 - **Graduate:**
Full-time, 9 credits per semester
Part-time, 6 credits per semester
- C. Students who do not attain the appropriate levels of satisfactory progress may complete the needed semester hours during the summer session. Those who do not complete the needed hours during the summer session will not be eligible for any Title IV financial assistance for the following academic year.
- D. Upon presentation of evidence of medical emergencies or other legitimate personal or family exigencies, students who have been denied financial assistance under this policy may appeal to the campus officer designated by the President.
- E. Title IV programs are:
 1. Federal Pell Grant (FPELL)
 2. Federal Supplemental Educational Opportunity Grant (FSEOG)
 3. Federal Work-Study Program (FWSP)
 4. Federal Perkins Loan (FPERK)
 5. Federal Family Education Loan Programs (FFELP)
 - a. Federal Stafford Subsidized
 - b. Federal Stafford Unsubsidized
 - c. Federal Plus
 6. Connecticut Aid for Public College Student Grant Program (CAPS)

Financial Aid Application Process

To apply for financial aid, the following forms are necessary:

1. Free Application For Federal Student Aid (FAFSA). (All students)
 - Send the completed FAFSA to the processor, Iowa or Kentucky prior to March 15.
 - Be sure to list CCSU's Federal ID code number 001378 in the Release and Signature section.
2. Federal Income Tax Returns. (Students and Parents)
 - Send signed, completed Federal Income Tax Returns and W-2 forms to the CCSU Financial Aid Office.
 - Students and Parents(if dependent) that do not file a tax return must obtain a Non-filer Form in the CCSU Financial Aid Office.
 - Contact the Financial Aid Office for important deadline dates.
3. Financial Aid Transcripts. (Transfer Students)
 - Request financial aid transcripts from all prior post-secondary institutions that you have attended. **This is required even if you did not apply for or receive aid.**
 - All transcripts should be mailed to: Financial Aid Office, Central Connecticut State University, 1615 Stanley Street, New Britain, CT 06050.
 - Contact the Financial Aid Office for important deadline dates.

Incoming Freshmen and Transfer Students are considered for financial aid when admitted to the University but only if the required application forms have been received at Central Connecticut State University's Financial Aid Office.

Part-time Students (Continuing Education) must be matriculated (formally accepted by Central Connecticut State University's Admissions Office) before the aid application will be reviewed. Eligibility will be determined as complete applications are filed.

Notification Of Awards

Accepted, incoming students who have submitted all necessary documents to the Financial Aid Office on time will receive an eligibility notice by May 1. Continuing students who have submitted all necessary documents to the Financial Aid Office on time will receive an eligibility notice by mid-June. The Notice of Eligibility Letter outlines the types and amounts of aid offered. Please review the financial aid material carefully.

The award notification indicates the most equitable offer based upon the information you provided and the funds available to the University. The availability of funds from Federal and State programs is subject to federal and state appropriations and to changes in Federal and State legislation and regulations.

Questions regarding procedure or awards should be directed to the Financial Aid Office, Central Connecticut State University, 1615 Stanley Street, New Britain, CT 06050 (203) 832-2200.

Honors Scholarships

The Honors Program has a limited number of full and half scholarships covering all or part of in-state tuition and student fees. These scholarships may be held for up to eight terms, with award and renewal based on excellence in academic achievement.

The Honors Program is open to highly qualified students in any academic discipline and offers 34 credits of team-taught, inter-disciplinary courses. Taken over a period of three academic years, these courses count toward satisfying the University's general education requirement.

Students applying for admission to the program and for an entrance scholarship must meet high standards of performance in high school or first year post-secondary education, and satisfy writing and interview requirements. Candidacy is by invitation of the Honors Program Director.

For more information, please contact Dr. David Blitz, Director, Honors Program, Marcus White Hall, Room 300, Central Connecticut State University, 1615 Stanley Street, New Britain, CT 06050.

University Scholarships

Central Connecticut State University 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.

Pauline M. Alt Teacher Education Scholarship – awarded to full-time undergraduates with grade point average of 3.25 or better and preference to elementary education majors.

Pauline M. Alt Women's Re-entry Scholarship – awarded to matriculated undergraduates with preference given to women who have returned to higher education following an absence of three or more years.

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.

Class of 1953 Scholarship Fund – awarded to Junior level students in education with a minimum grade point average of 3.0 and demonstrated record of community service.

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.

Educational Support Services Scholarship Fund – scholarships to students enrolled in the Educational Opportunity Program or the Connecticut Collegiate Awareness Program.

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.

Alfred P. Manzi Memorial Scholarship – awarded to an active member of the wrestling team who shall have demonstrated dedication to the sport and to the betterment of the team.

Al Martin Scholarship Fund – 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.

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

Francis J. Rio Scholarship – awarded to undergraduate students studying for a degree leading to public school teacher certification in the natural sciences.

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

A. Todd Sagraves Scholarship – awarded to State Certified Marketing Education Teacher Coordinators and Distributive Education Clubs of America (“DECA”) Advisers who are graduates of Central Connecticut State University.

Jack Suydam 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. (Contact Accounting Department)

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. (Contact Athletics Department)

Class of 1971 Scholarship – established for members or the children of members of the Class of 1971. (Contact Financial Aid Office)

Judd Trust Scholarships – scholarships granted annually to minority students from Hartford who graduate from approved high school programs. (Contact Admissions Office)

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. (Contact Communication Department)

Herbert D. Welte Scholarship Fund – established for students in international studies who need financial assistance. (Contact Financial Aid Office)

ALUMNI ASSOCIATION

The CCSU Alumni Association sponsors programs and services for students, alumni and current members of the university community, including an affinity credit card and group rate insurance programs. The Alumni Association sponsors Homecoming, Alumni Day, Class Reunions and other social programs for its 44,000 members. The Association also offers its members access to the campus computing facilities for two semesters following graduation, career and library services, Internet access at a competitive rate, and exciting travel opportunities. The Alumni Association is governed by a Board of Directors consisting of alumni who volunteer their time to enhance the programs of the Association and its relationship with the university community. For more information contact the Alumni Affairs Office at 832-2586.

STUDENT INFORMATION

Campus Ministry

The Campus Ministry Association, located in Sam May Hall (lower level), 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 832-1935, or Newman House, 832-3195 for more information.

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.

If weather is threatening, cancellation of evening classes will be announced over Radio Station WTIC (1080 KC) and other radio stations in Central Connecticut, normally by 2 p.m. Evening classes will not be automatically cancelled when day classes are cancelled.

Off-Campus Cancellations – In general, a class will be cancelled if public schools in the locality where the class is held are closed because of storm conditions. Whenever possible, radio stations covering the areas involved will announce such cancellations.

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 in-

clude 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.

Faculty Advising

Each student is assigned a faculty adviser for consultation on course selection and approval of each semester's program of studies. The Advising Center, in collaboration with the Dean of Arts and Sciences, coordinates the advising of all students who have not chosen a major. The Center also advises Pre-Social Work and Pre-Communication majors. Students who are thinking of changing majors should come to the Center for help in making this decision. The academic deans, as well as faculty advisers, assist students on a wide range of academic matters. The Office of the Registrar helps resolve problems concerning transfer credits, of program changes and schedule conflicts.

Health Services

The University Health Service provides medical services for the maintenance of health and the evaluation and treatment of illnesses in injuries to all students. Staff and faculty will be seen for immediate medical care or referrals where indicated.

Many services are provided at no cost to the patients. These include but are not limited to the following:

- Evaluation and treatment of illnesses and injuries which include referrals to appropriate specialty consultants as needed.
- Daytime in-patient care for observation and treatment as needed.
- Certain laboratory tests for blood sugar or urine evaluations
- Sexually transmitted diseases – evaluation and treatment
- Blood pressure monitoring
- A health education resource center for information on a host of medical issues and concerns.
- Travel Clinic for travelers abroad

Treatments requiring a fee include:

- Additional laboratory and diagnostic evaluations
- Allergy Clinic
- Immunizations that are required for school, employment, and travel
- Low cost prescriptions – in house pharmacy for the medications ordered by the physician (starter doses of some medications)
- Anonymous HIV pre- and post-test counseling clinic

All full-time students are required to submit a medical history and physical examination form signed by their personal physician and a current immunization record. All part-time students are required to submit immunization

records for those diseases 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 schedules, grades or housing assignments until the obligations have been met.

Health insurance coverage (sickness and accident) is mandatory for all full-time students. One can purchase the *sickness* insurance plan through the University OR elect alternative coverage through an outside carrier. The University does provide an automatic *accident* insurance coverage for all full-time students – the premium is included in the general fee on the tuition bill. This accident coverage is not the primary carrier for an accident unless there is not other insurance held by the student. A combined sickness/accident policy is available for part-time students and dependents of students at a different fee scale.

Students should inform the Office of Student Affairs if they were absent from classes for medical reasons for more than five days and were not seen in the University Health Service. This information will be relayed to their professors. The University Health Service will notify the Office of Student Affairs if the student is seen by the department and will be out of school for an extended period of time.

The University Health Service is located in the Marcus White Annex, open Monday-Friday from 8 a.m.-3 p.m. and is staffed by a full-time physician and full-time nurses. The hours are subject to change (832-1925).

Orientation and Registration

An extensive orientation program is offered for new students. For freshmen, the program includes an overnight stay followed by registration the next day, during late June and early July. 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 Office of Student Affairs, Davidson Hall, Room 103. For information, call 832-1601.

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, Pikiell Lane, 832-2375.

Prevention and Counseling Services

The mission of the University Prevention and Counseling Services is to promote the health and wellness of all members of the CCSU community through a variety of prevention programs, and to provide individual, family and group counseling services to students who may be experiencing psychological or behavioral problems. All counseling services are confidential and no fee is charged. Every effort is made to help students feel welcome and able to comfortably discuss their concerns.

Some of the prevention programs sponsored by this department include the Natural Helpers Program, Peers Reaching Out (a peer education program), On Campus Talking About Alcohol training to student leaders and professional staff, and the Student Assistance Program.

Individualized development of student internships, practicums and assistantships is also available to qualified students. The department is located in Willard Hall, Room 100. Call 832-1945.

Residence Life

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 Office of Admissions. Applications for rooms, on the forms provided by the University, are considered in the order of acceptance. Because of the demand for on-campus housing, students are urged to return housing applications and pay housing fees promptly. These applications should be mailed to the Director of Residence Life, Mildred Barrows Hall, Central Connecticut State University. Please call 832-1660 if you have any questions.

The Office of Residence Life, in Mildred Barrows Hall, assists students in University housing matters. The Living Guide brochure details residence hall policies. Limited information on off-campus apartments is available in the Office of Residence Life.

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.

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 University is a member of the National Collegiate Athletic Association, the Eastern College Athletic Conference and the Mid-Continent 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.

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, 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.

The Student Activities business office is located within the department offices. Student organizations receiving a portion of the activities fee will do business through this office. There is support and advice concerning business functions and travel arrangements.

This office is also responsible for advising the Program Council and for the general coordination of student activities. It is located on the second floor of the Student Center with additional offices within the Program Council office on the first floor of the Student Center (832-1990).

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 the Kickbacks Coffee House, and Groucho's Comedy Club, all sponsored by the Student Center Program Council, as well as regular dance parties sponsored by student clubs and organizations.

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 more than 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 motivation, 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 but it occurs outside of the standard classroom environment. We believe that such experiences play a crucial role in providing students with an 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 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 Offices are:

The Advising Center

The Advising Center assists students in developing and implementing academic and career plans. For new students trying to understand University requirements, the Advising Center provides pre-registration advising. For students who are uncertain about either their major or their career plans, the Advising Center offers several self-assessment instruments to clarify values, identify interests, and enumerate career options. The Advising Center 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, the Advising Center has preliminary graduate school information and can refer students to faculty advisers who can assist them further. The Advising Center 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 provides learning assistance to help students perform well in their courses. Students develop collegiate learning strategies through the Methods of Inquiry Program, individual assistance and small group sessions. The Math Tutoring Lab operates from the same convenient location in the SW Quad of Memorial Hall. Students who wish to establish a strong grade point average should visit the office early in their college career. Evening hours are available.

Student Athlete Support Services, the Educational Opportunity Program (EOP) and the Connecticut Collegiate Awareness and Preparation (CONNCAP) program are also under the direction of this office.

Student Government

Student Government Association (SGA) is for everyone who would like to help make CCSU the best it can be. The full-time undergraduate students of CCSU make up the membership of the SGA. The SGA Senate is the

representative body of the SGA. Its members, the Executive Officers and Senators of the SGA, are democratically elected by the full-time undergraduates of CCSU.

The SGA Senate is responsible for acting as the voice of student concerns, needs, and celebrations. It is also responsible for promoting student participation in the various projects, committees and organizations at the university, state, and national levels that help shape the university and education in Connecticut. The SGA Senate allocates the SGA Student Activity Fund that is paid by all full-time undergraduate students. The Student Activity Fund is used to promote and fund student clubs, activities, services, and issues for the benefit of the students and their educational opportunities.

If you would like to get involved or would just like some more information, call the SGA at 832-3740 or stop by our office in the Student Center Room 201B.

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 Experiential Transcript Program. For more information on this or other aspects of student organizations contact the Student Center, Office of Student Activities or Office of Student Affairs

The organizations:

ACADEMIC

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.

Student Regulations

Regulations of the University are contained in the University Catalog, the Student Handbook 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 Rights

Central Connecticut State University's policy statement on "Rights, Freedoms, and Responsibilities" of students is included in the official Student Handbook (available at the Office of Student Affairs). Consult this statement for information about rights in the classroom (freedom of expression, adequate instruction, proper academic evaluation), student records and their disclosure, due process, and student freedom on and off campus.

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 (832-2043).

Women's Center

The Ruthe Boyea Women's Center in Marcus White Hall Room 103, 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 832-1656 or drop in. Both men and women are welcome.

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 student's academic dean.

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 follow for each semester hour of credit:

Grade	Quality Points	Grade	Quality Points
A	4.0	C+	2.3
A-	3.7	C	2.0
B+	3.3	C-	1.7
B	3.0	D	1.0
B-	2.7	D-	0.7
		F	0.0

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 attempted 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.

Only courses taken at Central Connecticut State, including summer session and winter session 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. However, transfer credits will count towards the total number of credits attempted.

Probation — Students whose GPA falls 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 attempted.

Students who are placed on academic probation are encouraged to meet with their academic dean. A student whose grade-point average falls below the minimum 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 enroll through the Continuing Education Office 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 as a non-matriculated student, a student may request readmission to Central Connecticut State as a matriculated student. 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 diploma and transcript purposes, honors students must earn a minimum of 62 credits in residence at Central Connecticut State. For commencement purposes, 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 Requirement—A minimum of 45 credits "in residence" are required for graduation. Students transferring to take at least 15 credits in their minor/concentration. Major and minor included in the 45-credit requirement means attendance under supervision of Central Connecticut State University.

ACAD. POLICIES

Programs in the **School of Business** require that at least 50% of the business credits needed for the business degree be earned and completed at Central Connecticut State University.

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 Registrar's Office. 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 Connecticut 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.

Prerequisites — Students found to be lacking the prerequisites for a course may be administratively removed from a class at the request of the instructor. Course prerequisites are defined in the course descriptions of this catalog.

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 with the exception that full-time undergraduate students must maintain a minimum credit load of 12 credits. Courses dropped by the deadline do not appear on the student's transcript. Forms are available in the Enrollment Center, Willard Hall.

Undergraduate full-time students for whom dropping a course would reduce their credit load to fewer than 12 credits **MUST** apply for withdrawal from that course. (Follow the same procedure as for Withdrawal from Courses described below.)

WARNING: Failure to carry a minimum of 12 credits may affect Satisfactory Academic Progress (SAP) and receipt of certain federal, state and other benefits including but not limited to various financial aid programs, Veterans benefits and Social Security benefits. Students dropping below 12 credits are ineligible for participation in Intercollegiate Athletics.

Withdrawal from Courses — 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. 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. A "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. Students must file a request for pass-fail option prior to the beginning of the third week of the semester. Contact the Registrar's Office for more information.

Audit Option — Full-time students are permitted to audit courses provided they are taking a minimum of 12 credits in addition to the courses audited. Part-time students need not meet this minimum requirement. Intent to audit a course requires the written approval of the instructor and must be filed in the **Registrar's Office** in the first three weeks of the semester. Failure to meet the instructor's requirements for auditing may result in the student's being withdrawn from the course. 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 full-time student may take 12 to 18 semester credits without special permission. 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. 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, chair of the department offering the course, and the graduate dean prior to registration. The necessary form is available in the Graduate Office and the Enrollment Center.

Course Repeat Policy* — A course in which a grade of C- or lower has been received may be repeated, **although no course may be repeated more than once without approval of the chair of the department offering the course.** The most recent course grade and credit will be applied to the GPA and degree requirements. All grades will appear on the student's transcript. This policy only applies to courses taken and repeated at CCSU.

NOTE: Repeating courses taken in a previous semester may affect certain federal and state benefits, various financial aid programs, loans, scholarships, and social security benefits, in addition to athletic eligibility and veteran's benefits. Satisfactory Academic Progress requirements must be met for continued financial aid eligibility. See Catalog for explanation of Satisfactory Academic Progress Policy.

*Education majors and postbaccalaureate certification students refer to the course repeat policy listed in the Education section of the catalog.

Non-Credit Courses—Non-credit courses are offered through the Continuing Education Office 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 recognizes 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 Admissions 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 Admissions or the Enrollment Center. Official score reports are required by Office of Admissions.

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 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 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. 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 should check course equivalency with the Admissions Office. Students who wish to apply transfer credits to specific degree requirements should seek advice from the appropriate department chair or academic dean as to how the credit may be applied.

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 or the Enrollment Center. 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 or the Enrollment Center, obtain the necessary signatures, and return it to the Registrar's Office.

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

Course Substitution — Departmental chairs may approve the substitution of one course for another within the major, minor or concentration. The student obtains the appropriate form from the Office of the Registrar or the Enrollment Center, has it signed by the chairs 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.

Change of status from full-time to part-time may be requested any time prior to the first day of classes and through the third week of a semester. No change of status is permitted after the third week. Contact the Associate Dean, Finance and Administration (Davidson Hall, Room 109, 832-1786).

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 Student Affairs Office, which notifies the instructor.
- Absences for official University trips to conferences, intercollegiate athletic events, musical performances and other events are authorized in advance by the Student Affairs Office.
- 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

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 with the Registrar's 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 Graduate School. Courses applicable to most degree programs are also offered through 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 Industrial and Technical Management as well as sixth-year programs. Consult the Graduate School 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 one credit 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 in the sciences are certifiable for teaching by the Connecticut State Board of Education and are taken only in conjunction with certifiable science 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 chair 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. (Music Education)	133
B.S. (Business Administration)	122
B.S.	
(Computer Science and Chemistry)	122
B.S.N. (Nursing)	130
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. (NOTE: Students meeting the foreign language requirement by 3 years of one foreign language in high school must complete the International requirement and apply 3 credits of [I] courses to Area B.)

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.

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. Refer to 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		
Accounting	BS			
African Studies			Yes	Yes
African-American Studies			Yes	Yes
American Studies			Yes	Yes
Anthropology	BA		Yes	Yes
Archeology			Yes	Yes
Astronomy			Yes	Yes
Art	BA	BS	Yes	Yes
Art History			Yes	Yes
Biology	BS	BS	Yes	Yes
Bio. Environmental Science	BS			
Bio.: Medical Technology	BS			
Biological Anthropology			Yes	Yes
Business			Yes	Yes
Caribbean Studies			Yes	Yes
Chemistry	BS	BS	Yes	Yes
Chem.: Biology	BS			
Chem.: Business	BS			
Chem.: Clinical	BS			
Chem.: Computer Science	BS			
Chem.: Environmental Science	BS			
Chinese			Yes	Yes
Communication	BA		Yes	Yes
Computer Science	BS/BA (Interdisciplinary)		Yes	Yes
Criminal Justice			Yes	Yes
Cross Cultural Comparison			Yes	Yes
Dance			Yes	Yes
Earth Science	BS	BS	Yes	Yes
East Asian Studies			Yes	Yes
Economics/Economic-Oper. Res.	BA		Yes	Yes
Elementary Education	(Students major in a subject matter or an interdisciplinary major. Contact departments for details)			
Engineering (transfer program) First two years at CCSU				
Engineering Technology	BS*		(Various specializations)	
English	BA	BS	Yes	Yes
Euro. Community/West. Euro. Studies			Yes	Yes
Entrepreneurship	BS			
Finance	BS			
French	BA	BS	Yes	Yes
Geography	BA	BS (Elementary)	Yes	Yes
Geog.: Planning	BA		Yes	Yes
Geology			Yes	Yes
German	BA	BS	Yes	Yes
History	BA	BS	Yes	Yes
Industrial Technology	BS		(Various specializations)	

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

* 123 credits

** Teaching English to Speakers of Other Languages

• For Communication Majors only

SCHOOL OF ARTS AND SCIENCES

George A. Clarke, *Dean*; June B. Higgins, *Associate Dean*;
Ross J. Baiera, *Assistant Dean*
Phone: 832-2600

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 chairs or directors and be assigned a faculty adviser.

Anthropology

D. A. Kideckel, *Chair*; K. L. Feder,
M. A. Park, W. Perry, E. N. Phillips.
(Dept. phone 832-2610, 832-2611 or 832-2966)

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, practicing anthropology and biological 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 Burrill 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 credit hours in Anthropology including ANTH 150, 160, 170, 200, 374, 375, 430, 490, one course from ANTH 350, 352, one course from ANTH 345, 370, 470. Three additional courses at 200-400 level, one in Archaeology, one in Biological Anthropology and one in Cultural Anthropology.

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 credit hours including ANTH 150, 215, 324, 450; and 12 credit hours from ANTH 210, 220, 230, 318, 322, 323, 329, 330 and 460. For students majoring in anthropology six hours of this concentration may be applied to the major.

Concentration in Biological 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 170, 220, 430. Two courses from ANTH 352, 422, 424, 426, 428 or 475 (if devoted to a specific world area). One additional course approved by an adviser. For students also majoring in Anthropology, three hours of this concentration may be applied to the major.

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

18 credits including ANTH 170, 200, 300, 370, 374, and 470. For students majoring in anthropology three hours of this concentration may be applied to the major.

Art

M. R. Cipriano, *Chair*; M. H. Bornstein, C. Broadus-Garcia, J. Buxton, S. Fafunwa, S. Gallagher, F. Hentschel, E. Langhorne, R. Siporin, M. Strathy, R. Todd, S. Vial. (*Dept. phone 832-2620*)

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 240, 341, 343, 344, 414, 416, 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, 224, 233, 322, 431, 436, 438, plus 18 credits of electives (consult with 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 240, 341, 343, 344, 441, 443, 444, 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, 468.

In addition, the student must take 34 credits of professional education, including ART 200, 201, 300 and 401, EDF 400 or 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, *Chair*; D. R. Carter, R. L. Davis, D. J. DeNuccio, S. L. Halkin, 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 832-2645)

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, electron microscopy suite, research laboratory in molecular genetics, 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 or 420 or 468 or 481; 226 or 227 or 425 or 444; 306; 316; 405; 411; and one of the following courses including laboratories: BIO 318, 410, 412/413, 449/450; 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, MATH 125, and with adviser's approval, one of the following: MATH 126, STAT 108, STAT 215, CS 113, CS 151, CS 213.

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.S. (Non-Teaching)

(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, 227, 420, 425, 444, 468 and 481; 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, one of the following: MATH 126, STAT 108, STAT 215, CS 113, CS 151, 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

61-67 credits of Biology and related sciences as follows: 30-32 credits in Biology including BIO 121, 122, 306, 390, 436; and 6-8 credits from the following: 221, 222, 226, 227, 316, 420, 425, 444, 468; and 4 credits from the following: 410, 411, 449, 450, 412, 413; and either 405 or 434. 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. A second course in Mode 2 should be chosen, with an adviser's approval, from among the following: MATH 126, STAT 108, STAT 215, CS 113, CS 151 and CS 213.

(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, *Chair*; J. V. Arena, T. Burkholder, C. A. Jones, A. W. Kozlowski, G. A. Page, T. D. Shine, R. Troy. (*Dept. phone 832-2675*)

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 chair.

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 chair.

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.

(f) Chemistry-Environmental Science Specialization

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

57 credits in Chemistry and Biology as follows: CHEM 121, 122, 301, 311, 312, 313, 321, 322, 323, 402, 406, 432, 456, 460 and 472; BIO 121, 122, 434 (or 405). In addition, a student must take MATH 122 and 221 and PHYS 125, 126. ESCI 121 is recommended. No concentration or minor is required.

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, *Chair*; K. Franz, S. S. King, Y. Ju, S. Mendez-Mendez, A. Moemeka, S. R. Olson, B. Sevitch, J. Parrish-Sprowl, C. White.
(Dept. phone 832-2690)

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 **21 credits** of departmental electives and **18 credits** of core requirements: COMM 140, 215, 230, 245, 301 or 302 or 303, and 400. As part of their 39 credit major, students must take a total of 21 credits from 300/400-level courses with a **minimum** of 9 credits from 400-level courses. Students should see the Department of Communication to obtain a Curriculum Guide Sheet to determine the appropriate departmental electives for their program.

Communication majors must also complete **two capstone** experiences as part of their graduation requirements. The first requirement is a **colloquium presentation** where the student discusses a piece of work (research paper, video production, internship, etc.) that they performed while completing the requirements for the major. The presentation will be made to a group of faculty and students from the Department of Communication. The second capstone requirement pertains to a **student portfolio** that each major prepares and submits to the department prior to graduation. The student portfolio should contain several pieces of work that the student selects to demonstrate their accomplishments while completing the program. Upon admission to the major, the student should obtain a set of guidelines for preparing the colloquium and student portfolio from the Communication Department.

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) **mass media** for students interested in careers in radio, television or film; (2) **promotion/public relations** for students who wish to develop communication skills for commercial as well as non-commercial employment in publicity, promotions, sales and corporate communication and community services; (3) **political communication** for students interested in developing communication skills necessary for working in state or local government; (4) **organizational communication** for students interested in pursuing consulting or in serving as managers for private and public institutions; and (5) **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 (in conjunction with Northwestern Connecticut Community-Technical College), and (6) 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.

The Department of Communication **maintains a policy for admission to the major**. To be admitted to the Communication major, students must complete **30 credits** (15 credits for transfer students with 45 or more credits transferred to CCSU) of general education or courses in their concentration (minor) and obtain a **2.0 GPA** or better. Also, students must complete four required Communication core courses at CCSU: (1) COMM 140, (2) COMM 215, (3) COMM 230 and (4) COMM 245 and achieve a **2.5 minimum overall GPA** for the four courses with no grade lower than a C- in any course. **Students who have taken one or more of these courses at another institution should see the department chair for a substitute(s).**

Students should **not** take any Communication courses beyond the six required in the core (COMM 140, 215, 230, 245, 301 or 302 or 303, and 400) until they have been admitted to the major. Students who have been denied admission to the major may apply courses from the required core with a grade of C- or better to a concentration (minor) in Communication.

Ant student denied access to the major may appeal to a committee to be composed of faculty from the Department of Communication. This committee will determine if the student with a below minimum grade point average possesses a record which warrants special admission to the major.

Curriculum Guide Sheets listing required and recommended courses for each emphasis are available in the department. A maximum of 6 credit hours in related courses from outside the department (also listed on Curriculum Guide Sheets) may be counted towards the

major. The student may also request to use up to six credits of related coursework outside of the major that were not listed on the Curriculum Guide Sheets. In such cases, students should obtain permission from their adviser and department chair as well as complete a course substitution form. Furthermore, **completion of a concentration (minor) in a related field of study in another department at the University is required.** The student should complete a Program Change Form as soon as possible to declare their concentration.

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

J. M. Calvert, *Chair*; F. Abdollahzadeh, W. C. Jones, B. P. Kjell, A. Z. Leibowitz, C. W. Neville, C. L. Pelletier, I. Pevac, N. Zlatareva. (*Dept. phone 832-2710*)

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 7000-630, a VAX 7000-640, 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. The entire campus is linked 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, 161, 253, 254, 354 and 355. 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 338, 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. Any science course or ECON 485, GEOG 478, PSY 221 and 222, SOC 222 and 480, 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

K. T. Pae, *Chair*; P. L. Altieri, R. R. Daigle,
K. H. Kim, J. C. Loughlin, A. Papathanasis, A. J. Zottola.
(Dept. phone 832-2725)

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 HIST 430 or 465. In addition the student must take MATH 125 and STAT 104, PHIL 220 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 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. HIST 430 or HIST 465 may be credited toward the concentration in the B.S. program.

English

L. Jestin, *Chair*; R. J. Baiera, S. Barnett,
G. Belanger, D. Bentzion, R. L. Bonaccorso, A. Cannella,
J. D. Conway, D. Cook, W. Cook, R. Dunne, C. Francis,
D. R. Gallo, B. Galvin, G. Gigliotti, T. Hazuka,
J. A. Heitner, A. M. Hirsh, B. H. Leeds, D. M. Lynch,
K. M. Lynch, D. P. McDonough, M. Mentzer, M. Nunn,
A. G. Osburne, R. Schipke, D. P. Shugert, J. Stygares,
G. J. Tullai, G. J. Weinberger.
(Dept. phone 832-2740)

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 chair.

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 (or an approved substitution), 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, *Chair*; B. Carmichael, R. Fernandez,
J. E. Harmon, T. J. Rickard, B. J. Sommers.
(Dept. phone 832-2785)

The Geography Department is concerned with the science of location. Geography faculty teach students to use maps, air photos, computers and information about places to understand 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, 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 6 credits from GEOG 430, 433 or 445. 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, 450, and 454; two courses in regional geography at the 400 level; 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, 454; geographic techniques courses: GEOG. 256, 266, 276, 378, 442, 476, 478; planning courses: GEOG 241, 420, 433, 439, 440, 441, 443, 445, 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.

39 credits as follows: GEOG 110, 241 and 441; 15 credits in geographic techniques; 9 credits from GEOG 433, 439, 440, 443, 445 or 450; 3 credits from GEOG 244, 272, 275, or 490; and GEOG 420. A concentration in another discipline acceptable to the student's adviser is required. STAT 104 or 215 (Mode 2) and ENG 403 (Area A) are also required. CS 115 or TC 115 is recommended as a part of General Education requirements.

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 EDSC 256, 383; EDF 400 or 401; ED-SC 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 46. Please consult with the School of Education and Professional Studies concerning additional education requirements.

History

D. G. Sanford, *Chair*; A. B. Baker, J. Bergman, F. O. Best, S. Blejwas, H. H. Brown, G. T. Emeagwali, M. Guarino, E. Kapetanopoulos, N. H. Mezvinsky, H. Munro Prescott, A. C. Richard, C. Stephenson, G. Sunshine, P. Tolis, J. P. Walsh.

(Dept. phone 832-2800)

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 (usually either HIST 490 or 495) and 6 credits of elective (above 100 level). 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 requirement 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 490 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 consisting of Political Science 104 or 110; Economics 200 or 201; Geography 110 or 120; Psychology 112; and either Anthropology 140 or Sociology 110.

In addition, students must complete SSCI 420, EDSC 383 and 413, SPED 470, EDF 400 OR 401, PSY 235 or 236 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, *Chair*; M. G. Pronga, *Assistant Chair*; S. A. Bacon, W. W. Boelke, Y. Chen, P. A. Coe, T. V. Craine, R. Crouse, P. Halloran, C. Jin, D. J. Kelly, S. H. Lewis, J. McGowan, J. Melin, D. S. Miller, G. B. Miller, N. Padma, J. K. Piorkowski, A. Shaw, C. D. Smith, V. Sung, M. W. Swinsick, F. Van Dyke, C. Waiveris. (Dept. phone 832-2835)

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 chair prior to the student's acceptance into the Professional Program for Teacher Education.

Major in Mathematics, B. S.

(Certifiable for elementary teaching)

33 credits as follows: a) Core: 21 credits from MATH 113, 213, 305, 306, 409; STAT 215, and either MATH 122 or 125. b) Directed Electives: 12 credits from MATH 110, 115, 121, 307, 404, 421, 446; STAT 216 and 453.

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

Major in Mathematics, B.A.

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, 400, 416, 440, 451, 455, 456, 465, 467, 474, 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.

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 211; 9-12 credits chosen from MATH 222, 300, 335, 470, 477; STAT 400, 440, 455, 467, 475; ACTL 410, 420, 430, 435, 440, 444, 450, 480; and 9-12 credits chosen from AC 212; FIN 300; 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 440, 451, 455, 456, 467, 470, 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, 474 and 475; two courses chosen from STAT 400, 440, 455, 456, 465, 470 and MATH 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; 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, 222, 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 218, 221, 222, 463 and 3 credits chosen from MATH 228, 486 and 491.

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

21 credits including: STAT 215, 216, CS 151; three courses chosen from MATH 140, 470, STAT 400, 440, 455, 456, 465, 470, 476; one course chosen from the courses listed above or CS 450, 473; BIO 250, 405; ECON 460, 485; GEOG 476; PSY 222, 351; QA 420, 425.

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

Concentration in Mathematics for Special Education Majors, B.S.

17 credits including MATH 113, 203, 303 and 9 credits from MATH 305, 306, 308, 431, 446, 449.

Concentration in Mathematics/Reading for Special Education Majors, B.S.

17 credits including Reading 200, 300, 440 and 8 credits from MATH 113, 121, 213, 303, 308, 431, 446, 449.

Modern Languages

R. A. Picerno, *Chair*; M. A. Arenas, L. Auld, G.M. Caliendo, E. Force, A. Garcia-Lozada, P. Karpuk, R. Klinkenborg, C. S. Lien, M. Passaro, D. Pomerantz, M. Rohinsky, S. R. Schulman, S. L. Smith, S. Tomoda, L. Uribe, M. M. Wallach. (*Dept. phone 832-2875*)

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

(Certifiable for secondary teaching)

38 credits as follows: FR, GER, ITAL 125, 126, 225, 226, 360 (FR 301), 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)

30 credits including language courses numbered 125, 126, 225, 226, 305, 315, 316, 335, 6 credits of directed electives, 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, 483, 484. 6 credits in Geography are required from GEOG 110 or 120 and 434 or 436. 6 credits in Political Science are required: PS 104, 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 (FR 301) 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, *Chair*; H. H. Denmead, L. Laurent, P. Perry, S. Plugge, J. Ribchinsky, G. Rosa, R. Sepe, J. M. Shugert. (Dept. phone 832-2912)

ASSOCIATE FACULTY: R. Krentzman, clarinet; 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. Spicer, 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 chair 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 and 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 or 236 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.**

* Subject to change.

All Music Education majors must pass a piano proficiency exam. Unless they demonstrate sufficient proficiency, students must enroll in Piano Class to develop the skills to pass the exam. The exam may be taken a total of four times, and students must demonstrate a minimum of proficiency in EACH category to pass.

Most students should take this exam during their junior year. Three categories of the exam must be passed before acceptance into the professional program. ALL of the exam must be passed before beginning student teaching.

The piano proficiency exam consists of the following:

1. All major and minor scales (harmonic form), two octaves.
2. Playing three intermediate-level pieces, including a chorale and a memorized piece.
3. Harmonizing a simple melody.
4. Transposing the same melody up or down a major/minor second.
5. Sightreading a simple piano piece and an accompaniment.

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 chair 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

J. McKeon, *Chair*; D. Blitz, E. Godway,
M. Levvis, S. Morris, A. P. Iannone.
(Dept. phone 832-2915)

Philosophy is a critical, self-critical, comprehensive inquiry about knowledge, reasoning, reality, norms and values. It deals with corresponding problems arising in science, morality, art, literature, religion and the social and natural worlds. Accordingly, engaging in philosophy can both address curiosity about matters of lasting significance and help us develop skills for dealing intelligently and sensitively with life.

The department offers undergraduate major and concentrate programs in philosophy with emphasis on the history of philosophy. It also offers a broad spectrum of courses reflecting the diversity of contemporary thought, particularly recent developments in applied ethics. In addition, the department coordinates an interdisciplinary concentration in religious studies and plays an integral role in the General Education Program.

The department strives above all for excellence in teaching and for the cultivation of an active and supportive milieu for undergraduate study and for professional growth. It supports the scholarly research and professional activities of the faculty.

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

S. B. Newman, *Chair*; A. Antar, C. Baskerville, S. F. Burns, C. C. Chow, C. W. Dimmick, G. Geyer, K. Larsen, P. LeMaire, , T. A. Roman, N. Sadanand, R. J. Salamon, L. Tongson. (*Dept. phone 832-2930*)

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) *Subject to change.

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, 450 and 470. In addition, the student must take BIO 121; CHEM 121 and 122; SCI 417 and 420; MATH 122, 221 and 222.

Minor in Physics, B.S.

(Certifiable for secondary teaching) *Subject to change.

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 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, 450, 470 and 471. In addition, the student must take CHEM 121 and 122 and MATH 122, 221 and 222. 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, 431, 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 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

G. El-Eid, *Chair*; W. L. Brown, A. C. Moran, A. G. Smith, M. A. Triebwasser. (*Dept. phone 832-2960*)

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 chair, 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 chair, 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

M. B. Goldstein, *Chair*; C. Shaw Austad, L. Bowman, A. Chavarro, P. P. Chu, F. Donis, D. Engwall, R. J. Fitzsimmons, C. A. Ford, G. Hampl, S. W. Horowitz, L. Levine, L. Perdue, R. S. Stowe, S. K. Vaillant, I. Vlahakos, B. Waite. (*Dept. phone 832-3100*)

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; and 9 credits of Psychology courses. *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 courses. *NOTE: STAT 215 is a prerequisite for PSY 221.*

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 or 236; 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*; G. Gigliotti (English), D. Kideckel (Anthropology), F. Best, N. Mezvinsky (History), B. Baldwin (Sociology). (*Dept. phone 832-2915*)

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, 257, 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:

(Acceptable major for certification programs in elementary education or non-teaching major).

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 chair of the Physics/Earth Sciences Department — ESCI 129, 178, 179, 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.

(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: 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), 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
(Contact History Department chair)

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): SOC 110 or ANTH 140, ECON 200, 201; GEOG 110, 120; PS 104, 110; PSY 112. 2 credits in Social Science methods, SSCI 420. In addition, students must take EDSC 256, 383, 413; EDF 400 or 401; SPED 470 and PSY 235 or 236. No minor or concentration is required.

Social Work

B. Sosnowitz, *Director*; B. L. Schreier, *Field Coordinator*.
(Dept. phone: 832-3143)

Major in Social Work, B.A.

51 credits as follows: 39 credits in Social Work core courses including SW 226, 227, 360, 361, 362, 374, 426, 450, 451, 452, 453; and 6 semester hours of social work electives; and 12 credits of related courses including SOC 110 or ANTH 140; SOC 111, 233; and Psy 235. Social Work majors are also required to complete the following: BIO 111; PS 110 or 230; ECON 200 and STAT 215 as part of their general education requirements.

NOTE: This major does not require a concentration.

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, *Chair*; L. J. Evans, *Program Director*; B. R. Baldwin, M. L. Ertel, J. Mitrano, D. Stanley.
(Dept. phone: 832-3135)

Major in Sociology, B.A.

General Program:

The major in Sociology requires 33 credit hours including four "core" courses that enable students to develop basic conceptual perspectives and research skills of the discipline. The core courses are SOC 110, 217, 222, 225. Students additionally select seven elective courses, including four at the junior (300) and/or senior (400) levels. Students may focus their elective courses around a substantive area, such as Sociology and Law; Sociology and Research Methods; Sociology and Social Services; Sociology and Health Care; Sociology and Business; Social Inequality, or one of their own choosing. Substantive orientations should be developed in conjunction with the student's departmental adviser. Students are also required to take STAT 215.

Honors Program

Students, upon application and acceptance, may participate in the Sociology Honors Program which affords them the opportunity to engage in directed research on a one-to-one basis with faculty members. Students are required to take SOC 110, 222 and 225; students in the Honors Program are also required to take SOC 401 or 402, 434, 480. Honors Program students must also take STAT 215 and STAT 216. Of the remaining twelve credits, six must be at the 300 and/or 400 level.

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

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

Students are required to take 18 hours of course work in Sociology, including SOC 110.

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

18 credits, CJ 235, 331 or PS 332, CJ 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, *Chair*; T. J. Callery, Jr., C. Fellows, V. L. Finizio, V. C. Gagliardi, J. Perlstein, J. Strzemien.
(Dept. phone 832-3150)

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, 338, 339 (repeated for 3 credits), 246, 275, 327, 336, 347, 373, 447, 456, 483, 484; 10 credits of Theatre electives, excluding TH 100.
- b) Design and Technical Theatre. 60 credits in Theatre, including 41 credits required, as follows: TH 099 (repeated eight times), 111, 115 (3 credit min.), 117, 121, 145, 212 or 332, 213 and 214 or 126 and 327, 217, 253, 481, 482, 486, 487 (3 credit min.), 316, 318, 373, 374. 19 credits of Theatre electives, excluding TH 100.

- c) General Theatre. 60 credits in Theatre, including 29 credits required as follows: TH 099 (repeated eight times), 110, 111, 117, 121, 126, 145, 253, 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.
- d) General Theatre/Dance Emphasis. 60 credits in Theatre including 26 credits required as follows: TH 099 (repeated eight times), 110, 111, 115 (3 credit minimum), 117, 121, 126, 143, 145, 373; 18 credits of Theatre electives, excluding TH 100, and 16 credits of related fields courses as follows: DAN 151, 152, 153, 157, 158, 275, TH 235, 236, 480 and 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, 253.
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, 338, 339, 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).

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, 253; 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, 253 and 3 credits from among TH 373, 374, 470, 489.

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

18 credits in Dance and Theatre including DAN 151, 152, 153, 157, 158, 275 and TH 117, 121, 480 and MUS 109.

*In B and C above, Acting/Theatre Voice majors are recommended to complete TH 145, 338 and 246.

SCHOOL OF BUSINESS

John J. Hampton, *Dean*

William Bumpus, *Associate to the Dean*

Phone: 832-3205

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 reflect 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

Professional work in the upper division of 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 Associate to the Dean to enroll in those business courses.

Transfer students are required to complete a minimum of 45 credits "in residence." At least 27 of these credits must be taken in the Business major requirements. At least 9 of these 27 credits must be taken in the student's major.

The total credits for all Business majors consists of:

62 credits in General Education, and

60 credits in Business.

Total Degree Requirements: 122 credits

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 are advised to complete all necessary application procedures as early as possible, but no later than the end of the third week of the Fall or Spring semester. Students must have completed or be currently enrolled in the following pre-business courses at the time of application:

Pre-Business Requirements:

Area A ENG 110, Freshman Composition

Area C STAT 201, Business Statistics II

Mode 2 MATH 125, Applied Calculus I
STAT 200, Business Statistics I

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

Lower Division Common Business Courses:

AC 211, Introduction to Financial Accounting¹

AC 212, Introduction to Managerial Accounting¹

MIS 201, Introduction to MIS

LAW 250, Principles of Law

MC 207, Managerial Communications

Admission to the School of Business will be granted to those who have met all the Pre-Business course requirements and have accrued at least a 2.0 cumulative grade point average, on a space available basis. Preference shall be based on the applicant's cumulative grade point average.

Students accepted to the School of Business must maintain a minimum 2.0 grade point average. Students whose grade point average falls below the 2.0 cumulative grade point average will be subject to dismissal from the School of Business.

Further information and applications for admission to the School of Business can be obtained in the Office of the Dean.

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 Dean (832-3205), Maria Sanford 102.

Transfer Students

Transfer students must meet the same course requirements, application procedures, and cumulative grade point average as CCSU students.

Student Advising Program

Student advising and intervention are integral and vital components 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 Office of the Dean 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 Office of the Dean to review their course selection, to discuss grade point average 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 each semester, 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.

Additionally, the School of Business implements a special intervention program called T.A.R.G.E.T. [Targeting At Risk (students to) Generate Empowerment Thinking]. T.A.R.G.E.T. is designed to retain Pre-Business and Business students who are "at risk" of academic probation or dismissal. Additional information may be obtained in the Office of the Dean.

¹Courses previously titled AC 202 is equal to AC 211, and AC 303 is equal to AC212.

²Admission is guaranteed to Pre-Business students who have earned at least a 2.7 cumulative grade point average.

School of Business 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

Lower Division Common Business Core

AC 211	Introduction to Financial Accounting	3
AC 212	Intro. to Managerial Accounting	3
MC 207	Managerial Communications	3
MIS 201	Introduction to MIS	3
LAW 250	Principles of Law	3
Total		15

Upper Division Common Business Core

FIN 300	Managerial Finance	3
MGT 301	Fundamentals of Management	3
MKT 303	Fundamentals of Marketing	3
— 450	Capstone 450	3
		(See Department Chair for appropriate Capstone course selection.)
Total		12

Common Business Core Total (Upper and Lower) **27**

Major Course Requirements **27-30**

Major requirements are listed under the appropriate departments.

Required Courses in Major	9-21
Directed Business Electives	9-12
Business Electives	0-6
Free Electives	3-6
Total Degree Requirement	122

*Pre-Business requirements.

Accounting

S. Moscové, *Chair*;

R. T. Avritch, J. K. Bannon, R. Brody, P. A. Budwitz, A. Cooperstein, C. Gnizak, D. Loss, T. McNulty, W. A. Parker, M. Roxas, H. Shakun, J. Stoneback, J. Walo. (*Dept. phone 832-3220*)

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 chair 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:

Required Courses		Credits
AC 301	Cost Accounting I	3
AC 311	Intermediate Accounting I	3
AC 312	Intermediate Accounting II	3
AC 313	Intermediate Accounting III	3
AC 401	Federal Income Tax I	3
AC 440	Accounting Information Systems	3
AC 445	Auditing	3

Choose one of the following Business elective courses ¹ :		
AC 302	Cost Accounting II (or)	3
AC 402	Federal Income Tax II	
Additional Directed Business Electives		6
		Total 30

¹The course not chosen here may be used as an additional directed Business elective.

Additional Directed Business 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 330	Accounting for Non-Profit Institutions	3
AC 403	Estate Taxation	3
AC 407	Advanced Accounting	3
AC 408	Contemporary Accounting Problems	3
AC 455	Accounting Information Systems	3
		Total 6

Business Education

(Post Baccalaureate)

G. F. Claffey, *Coordinator (Phone 832-3210)*

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 the Coordinator for Business Education.

Students who plan to seek teacher certification should complete an undergraduate major in the School of Business.

Entrepreneurship

G. F. Claffey, *Coordinator (Phone: 832-3210)*

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:

Entrepreneurship			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 Business 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

M. M. Cutler, *Chair (Phone 832-3261)*;
W. Bumpus, P. H. Hall, E. T. Lynch, J. M. Sfiridis,
L. K. Wang. (*Dept. phone 832-3260*)

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 27-credit Common Business Core requirements plus the following 21 credits:

Finance		Credits
FIN 301	Intermediate Managerial Finance	3
FIN 310	Principles of Investments	3
FIN 320	Financial Markets and Institutions	3
Directed Business Electives		12
		Total 21

Directed Business Electives

The Finance program requires completion of 12 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
		Total 12

International Business

G. F. Claffey, *Chair*; F. Cohen, W. A. Parker, M. Vinci
(Dept. phone 832-3245)

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 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 chair)

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 300-400 level courses offered by the School of Business (except courses not available to Business majors).

Management and Organization

R. C. Dethy, *Chair*; E. Baten, R. Baughman, S. Cavaleri, D. Fearon, W. J. Ferguson, L. Freebairn-Smith, W. Lee, D. Miller, M. Mitchell (Dept. phone 832-3275)

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 chair 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

To Be Announced, *Chair*; R. Cardinali, M. J. D'Onofrio, T. Timlin, R. D. Frost, R. C. Vellore.
(Dept. phone 832-3290)

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, *Chair*; E. Astarita, R. DeCormier, A. Jackson, B. Lofman, D. Scherban, J. Strauss.
(Dept. phone 832-3305)

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 chair).

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 chair 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 chair.

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*
Mary Pat Hager, *Counselor*
Phone: 832-2100

Departments:

Health and Human Service Professions, Educational Leadership, 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, Health 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 six academic departments:

- Health and Human Service Professions
- Educational Leadership and Technology
- Physical Education and Health Fitness Studies
- Reading and Language Arts
- Special Education
- Teacher Education

The departments of 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 successfully 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**. The various subject matter majors are listed 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 Health and Human Service Professions who earn a Bachelor of Science in Nursing. These programs do not lead to certification.
- As an undergraduate major 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 early childhood, elementary, and middle school education, all fields in secondary education, all fields that lead to a NK-12 certification, and special education.

- As a post-baccalaureate 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 post-baccalaureate early childhood, elementary, middle school, secondary, NK-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.

Undergraduate Degree Programs Leading to Teacher Certification

The following programs lead to a bachelor's degree and to teacher certification:

- Early Childhood Education
- Elementary Education
- Middle School Education
- Secondary Education in the following fields: Biology, Business*, Chemistry, Earth Science, English, French, General Science, German, History, Italian, Mathematics, Physics, Social Science, Spanish.
- NK-12 Education in the following fields: Art, Music, Physical Education, Technology Education.
- Special Education
- TESOL**

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 may 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 832-3210.

** This program is offered as a certification program through the graduate school.

Retention Criteria. Once admitted to a 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 the 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 program 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 adviser 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 Praxis I Computer Based Test (CBT) (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. Praxis I (CBT) 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.

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**. The 2.70 GPA for admission to the Professional Program is calculated on all coursework transferred into CCSU combined with the CCSU cumulative GPA average and as well as a 2.70 GPA on all coursework taken at CCSU.
- Complete courses specified by particular departments (early childhood, elementary and middle school education, special education, or the subject major) as **prerequisites** for application to a teacher education program. Consult with the Chair of the Department or your adviser for specifics.
- Fulfill certain **laboratory requirements** involving working with children. Details are available from the appropriate department and are listed on the Professional Program application 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 application is September 21, and applications for Spring semester are due by February 21. Students should apply for admission to teacher education at least one year (3 semesters for elementary students) prior to the semester in which they plan to student teach. Application packets are available in the appropriate information rack outside the Dean's Office in Barnard 248. Follow carefully all instructions.

* Subject to Legislative change by the state.

- 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. Praxis I (CBT) must be satisfied prior to the application process, and copy of the Praxis I "Pass" letter or "Waiver" letter must be attached to the School of Education's Professional Program application and grade point average of all attempted college work 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.

Post-baccalaureate Programs Leading to Teacher Certification Only

Some students interested in teacher education already have a bachelor's degree. Working through Central's Post-baccalaureate 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
- Middle School Education
- Secondary Education in the following fields: Biology, Business Education, Chemistry, Earth Science, English, French, General Science, German, History, Italian, Mathematics, Physics, Social Science, Spanish.
- NK-12 Education in the following fields: Art, Music, Physical Education, Technology Education.
- Special 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, post-baccalaureate 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 Praxis I Computer Based Test (CBT) (basic skills test in reading, writing and mathematics) must also be satisfied prior to the application process, and a copy of the Praxis "Pass" letter or "Waiver" letter must be attached to the School of Education's Professional Program application. See the Praxis I (CBT) section in the Undergraduate Admissions section, above, for waiver qualifications. Applications are available in the appropriate information rack Barnard Hall 248 or may be obtained by writing to the Assistant Dean of the School of Education and Professional Studies at CCSU.

Post-baccalaureate students must meet the 2.7 grade point average requirement, Praxis I (CBT) evidence, 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 post-baccalaureate student will depend upon and follow the School of Education and Professional Studies' Professional Program evaluation and admission decision.

Phase II: Program Planning. Post-baccalaureate students must meet all course and laboratory requirements specified in their teacher education program. Even though they already have a bachelor's degree, students in post-baccalaureate programs may be 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 required 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 post-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 adviser regularly.
- Post-baccalaureate students should be sure that they have previously had, or that their "Program 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 advisers or the university. A course in developmental or life span psychology is a prerequisite for courses in the Professional Program.
- "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 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 adviser. At the time this catalog is being published, the School of Education and Professional Studies faculty is in the process of redesigning all of the education certification preparation programs. The State of Connecticut has also issued new certification requirements, to go into effect for those who will be applying for certification effective July 1, 1998. As a result, there will be a catalog supplement explaining the new curriculum and degree requirements sometime in the Spring 1996 semester. Special Education programs have different requirements. See the Chairperson of Special Education for specifics.
- Post-baccalaureate students seeking certification in Art, Music, Physical Education, Special 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."
- Post-baccalaureate students in elementary, middle school and secondary education should meet with the Post-baccalaureate Adviser 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. Post-baccalaureate students should follow the same procedures as those described for undergraduates in 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. Many courses offered in teacher education programs are closed to post-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 may not enroll in restricted courses. They will be removed if they do.

Retention Criteria. Once admitted to a teacher education program, a post-baccalaureate student is expected to maintain a 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.

Repeat Policy

Effective Fall, 1994: A course in which a grade of C- or lower has been earned may be repeated. The most recent course grade and credit will be applied to the GPA and degree transcript. All grades will appear on the student's transcript. This policy only applies to courses taken and repeated at CCSU. No course may be repeated more than once without that department chairperson's approval. An exception to this policy exists in the Department of Teacher Education which requires that departmental permission be granted to repeat **ANY** of the following courses:

For Elementary Education: EDEL 355, 356, 411, 412, RDG 330, MATH 303, SCI 412.

For Secondary Education or NK-12 Education: EDSC 375, 383, 413, 414, 415, 417, 419, 420, 429, 435.

Students must submit the request for permission to repeat any of the courses listed above to the chair of Teacher Education *before* adding the course to their schedule for a second time. Once students have the chairperson's approval, the School of Education and Professional Studies will utilize the most recent CCSU GPA in its calculations of the 2.70 minimum *total* GPA requirement for continuation in the Professional Program.

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 Assistant Dean's office. 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*; F. Abed, C. Carter, P. Lisi, B. Morrison, W. Osterndorf, A. Rigazio-Digilio, A. Vaillant. (Dept. phone 832-2130)

The Department of Educational Leadership offers a Master of Science in Educational Technology, a Master of Science in Educational Leadership, and a Sixth-Year Certificate leading to certification as an intermediate administrator or supervisor.

The department offers graduate courses in curriculum development and research in education.

Reading and Language Arts

B. A. Davies, *Chairperson*; H. Abadiano, G. Cueto (joint appointment) D. A. Monti, P. L. O'Brien, D. Truscott. (Dept. phone 832-2175)

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

V. W. Dethy, *Chairperson*; H. S. Apthorp, B. T. Bard, F. W. Fischer, M. Guarino, L. Snyder (on leave), A. J. Wolcott, M. J. Williams (joint appointment). (*Dept. phone 832-2400*)

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 113	Number Systems	3
MATH 213	Logic and Geometry	3
MATH 303	Learning and Curriculum Studies in Mathematics	2
RDG 330	Teaching Language Arts	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. The following concentrations are recommended: mathematics, mathematics and reading, psychology and Spanish. Students 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 grade point average in Special Education courses in the major to be recommended for certification.
4. Students must earn a minimum of 2.0 in each Special Education course, and in each Professional Education course.

Teacher Education

P. Lemma, *Chairperson*; E. Aaronsohn, T. Andrews, G. Cueto (joint appointment), M. Ferrara, M. Hott, M. Howell, E. Joyce, L. D. Klein, C. Koskoff, D. Mulcahy, K. Riem, S. Seider, C. Shmurak, C. Shuster. (*Dept. phone 832-2415*)

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

S. Seider, *Coordinator (823-2428)*; E. Aaronsohn, M. Ferrara, M. Hott, M. Howell, E. Joyce, C. Koskoff, P. Lemma, S. Seider, C. Shuster.

The Division of Elementary and Early Childhood Education believes that teacher preparation is a developmental 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 113 and 213, 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.

At the time this catalog is being published, subject matter major requirements in Early Childhood, Elementary and Middle School Certification programs are being revised due to the changes in certification being implemented by the State of Connecticut effective July 1, 1998. There will be a catalog supplement explaining the new curriculum and degree requirements.

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.

The requirements listed below are applicable to students admitted to the Professional Program for the 1995-96 academic year. Certification requirements for students who are admitted to the Professional Program after the 1995-96 academic year will be available in a catalog supplement. Course requirements are:

Grade One 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 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.

Student Teaching —
See DIVISION OF CLINICAL PRACTICES

Division of Secondary Education

C. Shmurak, *Coordinator*; M. Ferrara, K. Riem.
(Div. phone 832-2429)

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 NK-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 the General Education requirements, the Professional Studies, and the completion of a major.

Majors in the Secondary Education Program

7-12 - Biology, Chemistry, Earth Science, English, French, General Science, German, History, Italian, Mathematics, Physics, Social Science, Spanish.

NK-12 - Art, Music, Physical Education, Technology Education.

Certifiable Minors for Secondary Students*

Biology, Chemistry, Earth Science, General Science, Physics.

Requirements for these areas of specialization may be found under the discipline.

* Subject to changes in the state certification regulations, certain certification minors, listed above, may be eligible for cross endorsement certification provided the major is in another science area.

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 NK-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

EDSC 256	Learning: Its Significance in Secondary Education	2
*EDSC 383	Principles and Evaluation of Secondary Education	4
EDF 400	Philosophy of Education OR	
EDF 401	Foundations of Education	3
SPED 470	Educating the Exceptional Learner	3
EDSC 413	Responsible Student Teaching	6-12
	Special Methods course in conjunction with the major academic department (3 credits for English).	2

* NK-12 program (Art, Music, Physical Education and Technology Education) students take EDSC 375, Principles and Evaluation in Education instead of EDSC 383. EDSC 375 is only open to students who will student teach within two semesters after completing the course.

All students must also take professional education coursework in the academic discipline to be taught.

NOTE: EDSC 256, 383 (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.

Student Teaching —
see DIVISION OF CLINICAL PRACTICES

Division of Educational Foundations

L. D. Klein, *Coordinator*; D. Mulcahy.
(Div. phone 832-2424)*

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 832-2416)

All students in Early Childhood, Elementary, Middle School, 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 PRAXIS 1 (CBT) 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.

Student teaching courses (EDEL 411 and 412, EDSC 413, 414, 415, 417, 419, 420, 429, 435) may not be repeated without permission of the Director of Clinical Practices, as well as the chairpersons of the student's major department and teacher education.

Health and Human Service Professions

J. A. Hriceniak, *Chairperson*; L. Barile, R. Cohen, N. Organek, S. Rosenberg, M. J. Williams.
(Dept. phone 832-2154)

Nursing

The 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);
- H. Start clinical courses within one year of passing the validation examination;
- I. 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.

* 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.

Counselor Education

The department 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 counseling in Higher Education, Rehabilitation Counseling, and Marriage and Family Counseling.

Physical Education and Health Fitness Studies

J. R. Olcott, *Chairperson*; A. B. Capitaio, A. P. Craven, C. Fellows, F. J. Frangione, D. Harackiewicz, V. Morley, S. H. Smith, R. E. Trichka, J. R. Webster, J. W. Wojtusik. (Dept. phone 832-2155)

The Department of Physical Education and Health Fitness Studies offers a major in Physical Education for teacher certification and non-certifiable options in Health Fitness, Athletic Training and Physical Education for Older Adults.

Major in Physical Education, B.S. Ed.

53 credits in Physical Education, subdivided into the following components:

Skill Courses

Required:

PE	272	Movement Fundamentals	1
PE	273	Tumbling & Gymnastics	2
DAN	275	Modern Dance & Theory	1
PE	350	Racquet Sports	2
PE	375	Training for Fitness	2

Choose one from the following: REC 200, REC 230, REC 232, REC 233, PE 175, PE 271, PE 374. 1
 subtotal 9

General Education pre-requisites remain the same.

Core of Required Lecture Courses

44 credits required:

PE	111	Orientation of Physical Education	2
PE	210	Personal and Community Health	2
PE	213	Anatomy in Physical Education	3
PE	214	Physiology in Physical Education	3
PE	216	Kinesiology	3
PE	300	Developmental Movement	3
PE	304	Secondary Methods in Physical Education	3
PE	305	Measurement and Evaluation in PE	3
PE	402	Organization and Administration in PE and Athletics	3
PE	404	Exercise Physiology	3
PE	405	Elementary Methods in Physical Education	2
PE	406	Adapted Physical Education	3
PE	408	The Curriculum Process in K-12 Physical Education	3
PE	409	Psycho-Social Aspects of Physical Education	2
PE	420	Perceptual and Motor Development	3
PE	422	Motor Learning	3
subtotal			44

Required Education Courses

EDSC	256	Learning: Its Significance in Secondary Education	2
EDSC	375	Principles of Secondary Education	3
EDF	400	Philosophies of Education	3
OR			
EDF	401	Foundations of Education	3
EDSC	417	Student Teaching, Elementary Physical Education	6
EDSC	419	Student Teaching, Secondary Physical Education	6
subtotal			20

The General Education prerequisites are:

BIO 111, CHEM 111, ENG 110, HIST 261, HIST 262, STAT 104, PHYS 111, PSY 235 or 236 and COMM 115.

PROGRAMS NOT CERTIFIABLE FOR TEACHING

Health Fitness Option

Required Courses (47 credits)

Core of Required Lecture Courses

PE	110	Concepts in Physical Fitness	2
PE	111	Orientation to Physical Education	2
PE	210	Personal and Community Health	2
PE	213	Anatomy in Physical Education	3
PE	214	Physiology in Physical Education	3
PE	216	Kinesiology	3
PE	217	Care and Treatment of Athletic Injuries	3
PE	307	Human Nutrition	3
PE	332	Psychological Aspects of Sport	3
OR			
PE	409	Psycho-Social Aspects of Physical Education	2
PE	400	Graded Cardiac Testing	3
PE	401	Implementation & Evaluation Programs	3
PE	404	Exercise Physiology	3
PE	411	Organization & Management of Health Fitness	3
PE	422	Motor Learning	3
PE	443	Practicum in Health Fitness	3
PE	444	Internship in Health Fitness	6
subtotal			47

Skill Courses

PE	375	Training for Fitness	2
PE	272	Movement Fundamentals	1
DAN	155	Dancercise	1
DAN	156	Slimnastics	1
REC	120	Fitness Activities	1
Choose from		REC 200, REC 230, REC 232, REC 233	1
subtotal			7

Athletic Training Option
Required Courses (57 credits)

Core of Required Lecture Courses

PE 110 Concepts in Physical Fitness	2
PE 210 Personal and Community Health	2
PE 213 Anatomy in Physical Education	3
PE 214 Physiology in Physical Education	3
PE 216 Kinesiology	3
PE 217 Care & Treatment of Athletic Injuries	3
PE 218 Scientific Basis for Athletic Training	3
PE 332 Psychological Aspects of Sport	3

OR

PE 409 Psycho-social Aspects of Physical Education	2
PE 307 Human Nutrition	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 400 Graded Cardiac Testing	3
PE 402 Organization & Administration in PE and Athletics	3
PE 404 Exercise Physiology	3
PE 422 Motor Learning	3
PE 440 Therapeutic Modalities	3
PE 445 Internship in Athletic Training	6
IT 380 Emergency Medical Technician	3

Subtotal 57

Skill Courses

PE 375 Training for Fitness	2
Aquatics: REC232 or REC 233	2

Subtotal 4

Unencumbered electives 3

**Physical Education for Older Adults
Option**

Core of Required Lecture Courses

PE 110 Concepts in Physical Fitness	2
PE 111 Orientation to Physical Education	1
PE 210 Personal and Community Health	2
PE 213 Anatomy in Physical Education	3
PE 214 Physiology in Physical Education	3
PE 215 Psychological Aspects of the Human Performance of the Aging	3
PE 216 Kinesiology	3
PE 217 Care and Treatment of Athletic Injuries	3
PE 305 Measurement and Evaluation in PE	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 411 Organization and Management of Health and Fitness	3
PE 422 Motor Learning	3
PE 443 Practicum in Health Fitness	3

Skill Courses

PE 375 Training for Fitness	2
REC 121 Cycling	1
REC 232 or 233	2
PE 350 Racquet Sports	2

Subtotal 8

SCHOOL OF TECHNOLOGY

John R. Wright, *Dean*
Andrew W. Baron, *Assistant Dean*
Peter Vernesoni, *Assistant Dean*
Phone: 832-1800

The School of Technology prepares graduates in professional technological fields. It consists of three departments: Engineering Technology, Industrial 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.

Engineering Technology

D. C. Dowty, *Chair (832-1816)*;
G. Alungbe, J. Bean, P.E.; A. Gates; R. S. Lang;
L. Lema, C. Mfg. E.; E. J. Maydock, O. A. Powell,
Z. Prusak, P.E.; E. Sarisley, P.E.
(Dept. phone 832-1815; FAX 832-1804;
INTERNET: Dowty@CCSU.CTSTATEU.EDU).

The Department of Engineering Technology offers the Bachelor of Science degree in Engineering Technology.

The Department has four 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 Department of Engineering Technology 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. Students taking Engineering Technology courses at or above the 300 level are required to obtain a VAX account and computer certification from the campus microcomputer lab prior to taking the courses.

Engineering Technology Specializations

Each Engineering Technology student should identify one of the following specializations based on individual interests and goals. Four specializations are identified; each is shown with its course requirements.

Manufacturing Engineering Technology

Accredited by TAC/ABET

Advisers: L. Lema, C. Mfg. E. (832-1821),
Z. Prusak (832-1826), A. Gates (832-1832).

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	Intermediate Algebra	3
TC 113	Intro to Information Processing	3
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		2
Total		68

Mechanical Engineering Technology

Accredited by TAC/ABET

Advisers: F. Cole (832-1822); O. Powell (832-1820).

Specialization Requirements		Credits
*Math 126	Applied Calculus II	3
TC 113	Intro to Information Processing	3
TC 121	Technical Drawing	3
TC 213	Electrical Energy	3
TC 216	Materials Processing II	3
TC 303	Electro Mechanical Converters	3
TC 321	Computer Aided Drafting	3
TC 324	Fluid Power Systems	3
TC 334	Mechanisms for Automation	3
ET 351	Applied. Mechanics I (Statics)	3
ET 352	Applied. Mechanics II (Dyn/Hyd)	3
ET 357	Strength of Materials	3
ET 358	Applied. Thermodynamics	3
ET 367	Machine Design	3
ET 440	Geo. Dimensioning/Tolerancing	3
ET 456	Material Analysis	3
ET 462	Mfg. Process Planning/Estimating	3
ET 466	Design for Manufacture	3
ET 469	CAD/CAE Solid Mechanics	3
ET 498	E. T. Senior Project (Capstone)	3
Directed Technical Electives		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.

* Placement exam required

Specialization Requirements		Credits
*MATH 121	Pre-Calculus Mathematics	3
CHEM 122	Chemistry II	4
TC 113	Intro to Information Processing	3
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
CS 450	Operations Research in Computer Science	3
CS 473	Simulations Techniques	3
	Directed Technical Electives	4

Construction Engineering Technology

Accredited by TAC/ABET

Advisers: E. Sarisley — P.E. (832-1817), G. Alungbe (832-1824), J. Bean — P.E.(832-1820).

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	Intermediate Algebra	3
TC 113	Intro to Information Processing	3
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	5

*Placement exam required

Industrial Technology

W.W. Davison, *Chair*; 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 832-1830; Fax 832-1804; INTERNET: Davidson@CCSU.CTSTATEU.EDU).

The Industrial Technology Department offers the following programs of instruction:

- Bachelor of Science degree in Industrial Technology.
- Master of Science degree in Industrial Technical Management.

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 University 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 (832-1831), R.H. Thompson (832-1838).

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	3
TC 114	Intro to Energy Processing	3
TC 118	Intro to Material Processing	3
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 4
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 (832-1835), R. J. Perreault (832-1836).

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 (832-1838), D. Zanella (832-1841).

This area of specialization is keyed toward preparing students for middle management positions in the electrical 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	3
TC	114	Intro to Energy Processing	3
TC	118	Intro to Material Processing	3
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			4

Graphic Arts

Advisers: S. E. Rich (832-1832), M. Haase (832-1837), O. Odesina (832-1833).

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	3
TC	114	Intro to Energy Processing	3
TC	118	Intro to Material Processing	3
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			7

Graphic Design Management

Advisers: S. E. Rich (832-1832), M. Haase (832-1837), O. Odesina, (832-1833).

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. (832-1840), K. Tracey (832-1842), M. C. Vincenti (832-1839).

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	3
TC	114	Intro to Energy Processing	3
TC	118	Intro to Material Processing	3
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			4

Occupational Safety

Adviser: A. W. Baron (832-1802).

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	3
TC	114	Intro to Energy Processing	3
TC	118	Intro to Material Processing	3
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			7

Power Transmission

Adviser: W. W. Davison (832-1831).

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 salespeople 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	3
TC	114	Intro to Energy Processing	3
TC	118	Intro to Material Processing	3
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			7

Public Safety

Adviser: A. W. Baron (832-1802).

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

Technology Education

W. T. Foster, *Chair* (832-1851); G. Ku, J. C. Larkin, P. A. Rodrigues, W. Tracey, M. J. Williams.
(Dept. phone 832-1850, Fax 832-1804,
INTERNET: Foster@CCSU.CTSTATEU.EDU

The Department of Technology Education offers the following programs of instruction:

Bachelor of Science degree in Technology Education;
Post Baccalaureate Certification Program 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 (832-1857).

Technology Education Major, B.S.

Advisers: W. T. Foster, G. Ku, P. A. Rodrigues, W. Tracey.

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, TE 110, 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, EDSC 414 and 415.

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
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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
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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

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
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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		

	VOC. & IND. ED. CREDITS	PROF. ED. CREDITS
--	-------------------------------	-------------------------

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.

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 first 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, who have completed their first year. Currently, it costs \$400 per year to be enrolled in the Co-op program. Students are billed \$200 per semester.

INTERNATIONAL AND AREA STUDIES

CCSU 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/Western European Studies are also offered.

Each student planning to major in International Studies should contact the chair of the International and Area Studies Committee. Students planning a concentration in a region, or those interested in a region 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:
International and Area Studies Committee, 832-2041.

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

18 credits in one modern language OR demonstration of competency in reading, writing, speaking, and understanding of one language equal to completion of the 226 level, as determined by a CCSU instructor of the language. Students who complete the requirement with fewer than 18 hours must take additional courses in the Academic Track category to make up the difference.

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. As an alternative, 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 of 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 are fulfilled by IS 475, Senior Project.

Modern Language: 18 credits in one Modern Language OR demonstration of competency in reading, writing, speaking, and understanding of one language equal to completion of the 226 level, as determined by a CCSU instructor of the language. Students who complete the requirement with fewer than 18 hours must take additional courses in Social Science or History to make up the difference.

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. As an alternative, 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* (832-2815);
G. Alungbe, A. Antar, H. Brown, W. Brown,
B. Carmichael, T. Darko, G. El-Eid, S. Fafunwa-Ndibe,
E. Joyce, P. LeMaire, A. Moemeka, S. Odesina, P. Osei,
W. Perry, E. Phillips.

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* (832-2921);
M. Guarino, Y. Ju, K. H. Kim, C. S. Lien, S. Tomoda,

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-C. Rohinsky, *Coordinator* (832-2889);
G. Claffey, W. Ferguson, D. Mulcahy, M. Passaro,
D. Pomerantz, P. Resetarits, D. Sanford, R. Todd,
M. 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 intermediate (126) level in a West European language. Students 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

J. Snaden, *Coordinator* (832-2799);
R. Fernandez, *Director of Caribbean Studies*,
M. Arenas, W. Brown, G. Claffey, G. Cueto, F. Donis,
F. Gagliardi, A. Garcia-Lozada, P. Iannone, S. Mendez,
T. Mione, S. Morris, A. Richard.

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; ECON 435; GEOG 459*; HIST 483, 484, 493*; HUM 490*; IS 240, 245, 490*; PS 235, 420, 438; SOC 411; SPAN 316, 376, 410

In addition, students will use 6 credits from the following to satisfy their General Education requirements except when exempted: SPAN 125, 126, 225, 226

Courses marked with an asterisk (*) can be used to satisfy program requirements with the approval of the Program Coordinator. 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.

Concentration in Caribbean Studies, B.A. or B.S.

18 credits including IS 240, 245, GEOG 434, and 9 credits from the following: ANTH 428, ECON 435, GEOG 459, HIST 483, PS 420, SPAN 316. Note prerequisites where applicable.

Students selecting these concentrations must register with the Program Coordinator.

Major

Students may specialize in Latin America within the International Studies Major.

Middle Eastern Studies

G. El-Eid, *Coordinator* (832-2963);

A. Antar, G. Emeagwali, N. Mezvinsky,
A. Papathanasis.

Concentration in Middle Eastern Studies

18 credits including HIST 472, PS 434, and 12 credits from HIST 471, 473, 474, PS 339, 491..

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

P. Karpuk, *Coordinator* (832-2883);

G. Altman, J. Bergman, S. Blejwas, D. Kideckel,
P. Resetarits, B. Sommers, J. Stoneback.

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 the coordinator (832-2883).

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, *Coordinator* (832-2817; 832-2190)

W. Brown, J. Buxton, C. Carter, G. Clarke, G. Emeagwali,
H. Enck, M. Mentzer, W. Perry, E. Phillips, H. Salahu-Din.

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.

American Studies

R. Dunne, *Coordinator* (832-2756); F. Best, S. Morris;
S. Pease; E. Newman Phillips; T. Rickard; R. Todd.

The American Studies concentration gives students the opportunity to explore the diversity and cohesion of society in the United States, in an interdisciplinary context. In consultation with an American Studies adviser, students are encouraged to shape an individualized course of study to meet their own academic goals.

The certificate in American Studies is primarily for international students who come to the United States for an introductory program in American Studies or wish to take such a program at a CCSU extension college abroad.

Concentration in American Studies, B.A. or B.S.

18 credits, distributed as follows: ENG 211, HIST 262, and PS 110; 3 credits of electives selected in consultation with an American Studies adviser from each of the areas listed below.

I.) ENG 210, ENG 212*, ENG 341, ENG 343, ENG 345*, ENG 448, HIST 261, HIST 330, HIST 369*, HIST 425, HIST 426, HIST 427, HIST 428, HIST 465, HIST 469*.

II.) ANTH 352*, ANTH 422, CJ 235, CJ 331+, GEOG 241, GEOG 330*, GEOG 490, PS 331, PS 332, PS 430, PS 431, SOC 231*+.

III.) ART 414, ART 415*+, MUS 401+, PHIL 382+, PHIL 400+, REL 257+, TH 275.

Other course options may be available if they focus specifically on some aspect of American culture; consult the American Studies chair for current options.

At least 6 credits must be on the 300-400 level and at least 3 credits must represent diversity in American society. Courses that satisfy this requirement are indicated by an asterisk (*).

Certificate in American Studies

ENG 211, HIST 262, and PS 110 and 6 credits from two of the three categories listed above.

At least 3 credits must be on the 300-400 level and at least 3 credits must represent diversity in American society. Courses that satisfy this requirement are indicated by an asterisk (*).

+ Note prerequisites

+ Under section or topic approved by the American Studies Committee.

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, chairs 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 chair of the Curriculum Committee, the chairs 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.

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 senior, 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. Hospitals expect a GPA of 2.5 or above.

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 Rose Shackleford, 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

H. M. Prescott, C. White, *Coordinators* (832-2809; 832-2695); *Advisory Committee*: M. A. Ertel, C. Ford, E. Godway, J. Higgins, M. Levvis, M. Mentzer, L. Perdue, M. Rohinsky, C. Shmurak, M. Wallach.

Concentration in Women's Studies, B.A. or B.S.

18 credits, distributed as follows: WS 200; 15 credits of electives from Theoretical (PHIL 100*, 222, 382*), Historical (ESCI 218, HIST 330, SOC 475*); Cultural (ANTH 350; ART 409; COMM 495*; ENG 215, 288*, 448*, 458*, 488*; HUM 150*); Social (COMM 495*; PS 241; PSY 448; SOC 240). At least one course (three credits) must be taken from three of the four areas listed.

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 coordinators.

†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 chair 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 or their academic dean 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 Industrial Technology Department at Central Connecticut State.

College of Technology

Public Act 92-126 created the "Connecticut College of Technology." A unique pathway curriculum which allows individuals to begin their studies at a community technical college and transfer directly to CCSU's School of Technology.

The Technology Pathway for entry into CCSU's School of Technology consists of a core of courses that will serve as the foundation of the bachelor of science degree in Engineering Technology, Industrial Technology and Technology Education. Continuation at Central will require a minimum course grade of C and 64 hours of college credit as follows:

MATHEMATICS	9 hrs
PHYSICS (General w/lab)	4 hrs
CHEMISTRY (General w/lab)	4 hrs
ENGLISH (Comp I)	3 hrs
COMMUNICATION (Speech)	3 hrs
HUMANITIES	6 hrs
SOCIAL SCIENCE	6 hrs
BEHAVIORAL SCIENCE	6 hrs
FINE ARTS	6 hrs
DRAFTING (CAD)	3 hrs
INTRODUCTION TO COMPUTERS	3 hrs
INTRODUCTION TO ENERGY	

(Physics)	3 hrs
MATERIAL SCIENCE	
(Metallics, Plastics, Ceramics)	3 hrs
INTRODUCTION TO DESIGN	3 hrs
TECHNOLOGY AND SOCIETY	2 hrs
TOTAL	64 hrs

The college of Technology offers students:

- A clear pathway from a two year college to a four year university without loss of credit or repeated coursework.
- The opportunity to begin their education on a full of part-time basis at any of the Connecticut's 12 community-technical colleges.
- Low costs by completing the first two years of study at a community-technical college.
- Direct admission into CCSU's School of Technology.

Community-Technical College

Transfer Concentrations

By agreement between the School of Arts and Sciences and the Connecticut Community-Technical College system, students who complete an Associates degree with a professional or technical program at the C-T Colleges may receive transfer credit for the courses in the program and apply 18-24 credits of the specialization to a transfer concentration in BA or BS (non-teaching) degrees offered by the School of Arts and Sciences. No residency credits at Central will be required for such a transfer concentration. Students are expected to complete a major (non-teaching) in the School of Arts and Sciences and to fulfill all other university requirements. The agreement includes program in Corrections and in Drug and Alcohol Rehabilitation previously accepted for transfer concentrations as well as other programs. For information, contact the office of the Dean of Arts and Sciences in DiLoreto Hall 112.

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 Chair 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 (832-2937; 832-2930).

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 the Advising Center, 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 832-1955, TDD/832-1958. (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 (832-2050).

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 (832-2050). 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 Office of Continuing Education. Students should also contact the International Affairs Center.

Honors Program

The Honors Program provides an inter-disciplinary approach to General Education for intellectually motivated and academically superior students. The program is open to all qualified students, regardless of major. Graduating high school students, students in their first year at the university, high school graduates returning from work or family responsibilities, and transfer students from community colleges or other universities are eligible to apply. A limited number of full or half merit scholarships covering in-state tuition and student fees are available.

The Honors Program is divided into four general areas: Western Culture, Science and Society, World Cultures, and the Writing and Thesis component. All Honors Program courses satisfy general education requirements, with modal restrictions where noted. Honors students are required to complete the following 34 credits of Honors Program courses, which are offered over a three year period and are available only to Honors Program students:

Western Culture

- ID 101 Western Culture I: Ancient Greece and Rome
- ID 204 Western Culture II: Middle Ages to Enlightenment
- ID 205 Western Culture III: 19th Century Western Culture
- ID 300 Western Culture IV: 20th Century Western Culture

Science and Society

- ID 105 Science and Society I: Natural Sciences and Society
- ID 202 Science and Society II: Social Sciences and Society

World Cultures

- ID 106 World Cultures I: Introduction to Comparative Cultures
- ID 203 World Cultures II: African and African-American Studies
- ID 302 World Cultures III: Asian Studies

Writing and Thesis

- ID 107 Critical Thinking and Persuasive Writing
- ID 410 Thesis Preparation and Proposal (1 credit)
- ID 420 Honors Research

Honors Program students may choose to graduate without a minor or concentration. Students who complete the Honors Program with a grade point average of 3.20 or higher for their honors courses, and a grade point average of 3.00 or higher for all their university courses, will receive the designation "Honors Program Scholar" on their transcripts and diploma. Inquiries should be addressed to the Director of the Honors Program, Dr. David Blitz, Department of Philosophy, Marcus White Hall, or to the Dean, School of Arts and Sciences, DiLoreto Hall.

GRADUATE SCHOOL

William O. Sherman, *Associate Vice President for Academic Affairs and Dean of the Graduate School*
Drina M. Lynch, *Assistant Dean, Graduate School*

The Graduate School offers the degrees of Master of Science, Master of Arts, and Master of Business Administration. For those who hold a master's degree, the School of Graduate Studies offers the Sixth-Year Certificate in Educational Leadership and in Reading. Planned programs of post-master's study are available in selected fields. A post-baccalaureate program which leads to teacher certification in Connecticut and in other states is also available.

Admissions Criteria

Admission to the Graduate School is based upon the applicant's record of academic performance. 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 to 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 standards of the Graduate School. Prospective applicants should consult the graduate catalog or academic department about admissions criteria for particular programs.

Applying for Admission

Applications for admission to all graduate programs are available in the School of Graduate Studies (Davidson Hall, Room 125; 832-2350) and in other campus offices, including the Division of Enrollment Services in Willard Hall. Application forms contain detailed information about the admission process and must be submitted to the Graduate School 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 Graduate School from all institutions attended, except Central Connecticut State University. Applicants who have attended Central Connecticut State University must list all dates of attendance so that official records can be appropriately retrieved and evaluated.

In addition to submitting the application form, the fee, and official transcripts, applicants must provide any additional evidence of admissibility (such as test scores, essays, letters of recommendation, etc.) required by the particular program for which admission is sought.

Application Deadlines. The desired deadline for receipt of the application form, all transcripts, and supporting materials is JUNE 1 for fall semester acceptance, and DECEMBER 1 for spring semester acceptance. International applicants should submit all application materials by May 1 for fall admission, and October 1 for spring admission to assure adequate time for processing visa applications and other arrangements. Graduate admissions are conducted on a rolling basis throughout the year, with these published deadlines reflecting desirable submission date only. Students are assisted to the fullest extent during each admission period.

Graduate Student Status

Full-time Student Status. A graduate student who registers for 9 semester hours or more is considered full-time for tuition purposes. Full-time students register in the Graduate School office.

Part-time Student Status. A graduate student who enrolls in 8 or fewer semester hours is considered part-time for tuition purposes. Part-time students register and pay fees through the Division of Enrollment Services.

Tuition and Fees

At this catalog printing, the proposed tuition and fees for graduate study during the 1995-96 academic year are as follows.

For **full-time study** (course load of 9 or more semester hours) the costs each semester are:

	Connecticut Resident	Out-of State Resident
Tuition	\$ 1192	\$ 3324
State University Fee	\$ 277	\$ 681
General Fee	\$ 351	\$ 351
Student Activity Fee	\$ 30	\$ 30
Total Tuition/Fees	\$ 1850	\$ 4386

In addition, full-time graduate students are billed an annual Accident and Sickness Insurance fee of \$285 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 the waiver to the University Health Services.

When accepted for admission or re-admitted to Central Connecticut State on a full-time basis, all students pay a non-refundable \$90 Enrollment Binder (applied to tuition) within the time specified on their bill. The balance of tuition/fees is due July 15 for the fall and January 3 for the spring.

For **part-time study** (course load of 8 or fewer semester hours) the costs each semester are:

Registration Fee	\$ 41
Courses numbered 100-499	\$ 144 per credit hour
Courses numbered 500-699	\$ 157 per credit hour

All fees are subject to change without notice.

Program Information

Central Connecticut State University offers graduate degree programs in 31 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 a particular subject, and may specialize in an aspect of the subject relevant to their career goals. The M.A. degree is available in six disciplines: Biology, English, History, Mathematics, Modern Languages, and Psychology. Students may 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 for others seeking to enter or to advance in public service professions. Degree programs include at least 30 hours of courses; 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 Business Administration (M.B.A.) degree, presently offered in International Business, is a professional degree for people who aspire to be leaders in the global marketplace. The program's international core and organizational elective courses afford opportunities to explore theory and practice and to develop an understanding of world cultures. The M.B.A. is designed to prepare graduates who are knowledgeable, ethical, and socially responsive ambassadors in the global forums of business.

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 and 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, and NK-12 endorsement fields. Professional specializations such as school counselor, media specialist, and reading consultant are also provided.

Requirements for the Master's Degree

The master's degree is conferred upon 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 provide 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 an adviser and the graduate catalog for further information about courses and study plans.

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, 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 Graduate School office. 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 1992 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 | 5. Historical |
| 2. Mathematical-Logical | 6. Behavioral |
| 3. Literary | 7. Social Scientific |
| 4. Artistic | 8. Natural Scientific |

The Areas are:

- | | |
|---------------------------------------|-----------------|
| A. Communication Skills | C. Supplemental |
| B. Foreign Language/
International | 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 223: Ancient Philosophies of Democracy
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 250: Introduction to Asian Philosophy [I]
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
PHIL 401: Seminar in Asian Philosophy [I]
REL 105: Development of Christian Thought [I]
REL 110: World Religions [I]
REL 257: 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 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]
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 [I]
ITAL 360:	Literary Masterpieces to 1800 [I]
PHIL 275:	Chinese Philosophy [I]
PHIL 366:	Existentialism [I]
SPAN 305:	Literary Masterpieces Since 1700 [I]
SPAN 360:	Literary Masterpieces to 1700 [I]

†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
ART 230:	Drawing II
ART 240:	Printmaking I
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 360:	Ceramics II
ART 408:	The Art of Greece in the Bronze Age
ART 409:	Studies in Art History
ART 410:	Greek Art
ART 411:	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 420:	Issues in Contemporary American Art
ART 421:	Design — Advertising I
ART 422:	Design—Two and Three Dimensional
ART 452:	Advanced Painting I
ART 466:	Design—Jewelry
ART 494:	Location Studies — Art [I]
ENG 386:	The Language of Film
FA 296:	Community Based Outreach in the Arts
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 212:	Stage Mechanics
TH 213:	Scene Painting I
TH 214:	Scene Painting II
TH 217:	Sceno-Graphic Techniques
TH 222:	History of Fashion
TH 275:	Script Analysis
TH 489:	Studies in Theatre/Drama
TH 490:	Summer Theatre Workshop

HIST 465:	Economic History of the United States
HIST 466:	History of American Technology
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 [I]
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 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 330:	History of Women in the United States
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 356:	History of Eastern Europe Since 1919 [I]
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 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 456:	Chinese Intellectual History [I]
HIST 463:	Constitutional History of the United States to 1900
HIST 464:	Constitutional History of the United States Since 1900

MODE 6: BEHAVIORAL

ANTH 140:	Introduction to Anthropology
ANTH 150:	Introduction Archaeology
ANTH 151:	Laboratory in Introductory Archaeology
ANTH 160:	Introduction to Physical Anthropology
ANTH 170:	Introduction to Cultural Anthropology [I]
ANTH 200:	Dimensions of Diversity and Inequality
ANTH 210:	The Ancient World
ANTH 215:	Before History
ANTH 220:	African American Archaeology
ANTH 250:	Intercultural Communication [I]
ANTH 265:	Human Evolution
ANTH 270:	Psychological Anthropology [I]
ANTH 300:	City Life and Culture
ANTH 316:	Archaeology of Africa
ANTH 318:	New England Prehistory
ANTH 320:	Before History
ANTH 322:	Historical Archaeology
ANTH 323:	Urban Archaeology
ANTH 324:	Archaeology of the State
ANTH 325:	Human Ecology
ANTH 329:	Experimental Anthropology
ANTH 330:	North American Prehistory
ANTH 339:	Work and Culture
ANTH 345:	Laboratory in Biological Anthropology
ANTH 350:	Women and Men in Different Cultures
ANTH 352:	Ethnicity and Ethnic Identity
ANTH 365:	Human Differences
ANTH 370:	Applying Anthropology
ANTH 374:	Field Research Methods
ANTH 417:	Connecticut Indians
ANTH 422:	North American Indians
ANTH 424:	Peoples and Cultures of Africa [I]
ANTH 426:	People and Cultures of Eastern Europe [I]
ANTH 428:	Cultures of Latin America [I]
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 [I]
CJ 235:	Introduction to the Criminal Justice System
CJ 338:	Correctional Theory and Practice
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 [I]
IS 226:	Intercultural Sensitivity [I]
IS 230:	Topics in International Studies [I]

IS 240: Caribbean Cultural Patterns [I]
 IS 245: Puerto Rico [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 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: Adult Development and Aging
 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: The Sociology of Gender
 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 150: Contemporary Economic Issues
 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 226: Air Photo Interpretation
 GEOG 272: Physical Geography
 GEOG 274: Elementary Climatology
 GEOG 275: Soils and Vegetation
 GEOG 276: Elementary Cartography
 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 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) [I]
 GEOG 490: Connecticut
 IS 225: The World as a Total System [I]
 IS 226: Intercultural Sensitivity [I]
 IS 240: Caribbean Cultural Patterns [I]
 IS 245: Puerto Rico [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 291: Special Topics in Political Science
 PS 330: American Parties and Interest Groups
 PS 331: American Constitutional Law
 PS 332: Civil Liberties
 PS 334: Modern Political Thought
 PS 335: American 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 420: Government and Politics of Latin America [I]
 PS 421: Government and Politics of Africa [I]
 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
 TE 110: Technological Systems

MODE 8: NATURAL SCIENTIFIC

BIO 100: Search in Biology
 BIO 107: Plants and Civilization
 BIO 111: Introductory Biology
 BIO 112: Introductory Biology Laboratory
 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 227: Vascular Plants
 BIO 250: Introduction to Human Genetics
 BIO 444: Plant Taxonomy

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 The Solar System
ESCI 118:	Introduction to 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 218:	Women's Contributions to Stellar and Galactic 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 1 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

CHIN 111:	Elementary Chinese I [I]
CHIN 112:	Elementary Chinese II [I]
CHIN 125:	Intermediate Chinese I [I]
CHIN 126:	Intermediate Chinese II [I]
FR 111:	Elementary French I [I]
FR 112:	Elementary French II [I]
FR 114:	Basic French Review [I]
FR 125:	Intermediate French I [I]
FR 126:	Intermediate French II [I]
FR 225:	French Composition and Diction [I]
FR 226:	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
IS 490:	Field Studies Abroad [I]
IS 497:	Seminars in International Studies [I]
ITAL 111:	Elementary Italian I [I]
ITAL 112:	Elementary Italian II [I]
ITAL 125:	Intermediate Italian I [I]
ITAL 126:	Intermediate Italian II [I]
ITAL 225:	Italian Composition and Diction [I]
ITAL 226:	Italian Structure and Idiom [I]
ITAL 488:	Italian Life and Culture [I]
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
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]
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

*No more than 3 credits can be applied to General Education.

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: Fundamentals of Marketing
 MUS 335: Music History II
 PE 110: Concepts in Physical Education
 PE 210: Personal and Community Health
 PE 213: Anatomy in Physical Fitness
 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 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 160: Racquetball
 REC 162: Badminton
 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
 REC 244: Fitness/Wellness Ventures

ACCOUNTING

Enrollment in 300- and 400-level Business courses requires admission to the School of Business or permission of the Associate to the Dean.

- 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.: MATH 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, analysis 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 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 311 INTERMEDIATE ACCOUNTING I 3
Prereq.: 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 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 445 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 455 INTERNAL AUDITING 3
Prereq.: AC 440. Duties and responsibilities of Internal Auditors within the management team of the organization are explored. Topics include the organization of the Internal Audit Department, staff qualification and development, and the elements of Internal Auditing. Enrollment in 300- and 400-level courses requires admission to the School of business or permission of the Associate to the Dean.
- 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 issues 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 201 or 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. *Fall. (o)*
- 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 140 INTRODUCTION TO ANTHROPOLOGY 3
Major fields of anthropology, pre-history and ethnology, with emphasis on the distinctive perspectives of anthropology as a cultural and human science. Cannot be used for credit toward the major in Anthropology.. *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 BIOLOGICAL 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 170 INTRODUCTION TO CULTURAL ANTHROPOLOGY 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*.
- ANTH 200 DIMENSIONS OF DIVERSITY AND INEQUALITY 3
Cross-cultural examination of human diversity focussing on class, race, gender, and ethnicity. Consideration of the ways that cultural differences figure in the development of social, political, and economic inequality. *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 215 BEFORE HISTORY 3
The human past before the development of writing. Investigates the archaeology of the first four million years of human existence from our earliest upright ancestors to the evolution of complex civilization *Mode 6*.
- ANTH 220 AFRICAN AMERICAN ARCHAEOLOGY 3
Examination of early African American life via analysis of archaeological remains. Consideration of issues such as diversity of populations, health and diet, labor conditions. *Mode 6*.
- 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 300 CITY LIFE AND CULTURE 3
Exploration of the historical and contemporary development of urban spaces in the United States and Hartford area. Development of diverse cultural identities through neighborhood, social and religious institutions will be examined. *Spring. Mode 6*.
- ANTH 316 ARCHAEOLOGY OF AFRICA 3
Examines pre-historic and early historic period of Africa via archaeological, documentary and oral historical data. *Mode 6*.
- 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 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 323 URBAN ARCHAEOLOGY 3
Cross-cultural examination of the archaeology of urban life. Views the nature of urban centers and populations of the past and their relation to the social systems in which cities were located. *Mode 6*.
- ANTH 324 ARCHAEOLOGY OF THE STATE 3
Discusses the forces leading to the emergence of the state in both the distant and more recent past. Focuses on pre-history and early history of the world's first complex civilizations. *Mode 6*.
- ANTH 325 HUMAN ECOLOGY 3
Prereq.: 100 level anthropology course 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 330 NORTH AMERICAN PREHISTORY 3
Surveys the pre-historic past of the North American continent. Begins with the archaeology of the earliest human settlement and continues until the period of human contact in the sixteenth and seventeenth centuries A. D. *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 LABORATORY IN BIOLOGICAL ANTHROPOLOGY 3
Methods, skills and techniques of biological anthropology. Includes exercises in genetics; human biological variation; pedigree analysis; adaptability; non-human primates; human skeletal anatomy and the analysis of skeletal remains for fossils and forensic studies. *Mode 6*
- ANTH 350 WOMEN AND MEN IN DIFFERENT CULTURES 3
Cross-cultural, historical overview of gender differences. Consideration of gender biases in social science research. Students will examine relations between men and women in different societies to better understand such relations in their own lives. *Spring. Mode 6*.
- ANTH 352 ETHNICITY AND ETHNIC IDENTITY 3
Examination of the processes by which ethnic groups and identities are created, maintained or modified. Comparison of ethnic sub-cultures focussing on Connecticut groups. *Mode 6*.
- ANTH 365 THE ANTHROPOLOGY OF HUMAN DIFFERENCES 3
Prereq.: 100 level anthropology course 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 374 FIELD RESEARCH METHODS 3
Examines field research methods with focus on qualitative techniques like participant-observation, applied and action research, and ethnographic interviewing. Quantitative techniques include time budget analysis and single subject design. *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 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 424 PEOPLES AND CULTURES OF AFRICA 3
Samples the diversity of African peoples, their cultures and related social relations. Primary focus on colonial and contemporary life, African liberation movements, and the influence of global political economy on life in modern Africa. *Mode 6. [I]*
- 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 ANTH 170 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 170 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 chair. 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 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 TOPICS IN ANTHROPOLOGY 3
Examination of selected topics in Anthropology.
- ANTH 490 SENIOR THESIS 3
Semester long supervised research and thesis preparation including in-class discussion and oral presentation.

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.
- 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.
- 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. (May be used as a studio elective.) *Mode 4*
- ART 130 DRAWING I 3
An investigation of the components of drawing line quality, volume, value, space and composition. Exercises are designed to strengthen the student's ability to see, while developing hand to eye coordination. *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 240 PRINTMAKING I 3
Prereq.: ART 120 or ART 130. Introduction to the technical processes and the aesthetic possibilities of Lithography, Intaglio and Silkscreen. *Mode 4.*
- 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 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 handicrafts 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 chair.*
- *ART 322 GRAPHIC DESIGN SKILLS II 3
Prereq.: ART 222 and 230 and Computer Graphic Proficiency Exam. Extensive development of skills in the area of design. Exposure to concept theory, typographic considerations, professional critique and presentation technique including design practice. *[c]*

- *ART 324 ILLUSTRATION II 3
Prereq.: ART 224. Continuation of Illustration I.
- ART 341 INTAGLIO I 3
Prereq.: ART 240. Investigations in hardground, softground, aquatint, spitbite, sugarlift, drypoint, and monotype procedures using single and multicolor applications. *Spring.*
- *ART 343 SILKSCREEN I 3
Prereq.: ART 240. Single and multicolor water-based explorations in the following stencil techniques: Photo emulsion, Paper, Tape, Screen Filler, Fluid Drawing and Handcut Film. *Mode 4*
- *ART 344 LITHOGRAPHY I 3
Prereq.: ART 240. Emphasis on techniques of working directly on the Litho stone, including the use of dry and wet media, additive and subtractive approaches, photo transfers, and single and multicolor inks. *Fall.*
- *ART 352 PAINTING II 3
Prereq.: ART 252. Continuation of Painting I.
- *ART 353 PAINTING III 3
Prereq.: ART 352. Continuation of Painting II.
- ART 360 CERAMICS II 3
Prereq.: ART 260. Continuation of ART 260 with emphasis on wheel skills and glaze calculation. *Mode 4*
- *ART 361 SCULPTURE II 3
Prereq.: ART 261. Continuation of Sculpture I.
- *ART 362 SCULPTURE III 3
Prereq.: ART 361. Continuation of Sculpture II.
- *ART 366 HANDWROUGHT JEWELRY 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.
- ART 401 PRACTICUM IN ART EDUCATION 2
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. *Art Education majors only.*
- *ART 405 COLOR THEORY 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.
- ART 408 THE ART OF GREECE IN THE BRONZE AGE 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. *Mode 4*
- ART 409 STUDIES IN ART HISTORY 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. *Mode 4*
- ART 410 GREEK ART 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 end of the Hellenistic Era. *Fall. Mode 4*
- ART 411 ROMAN ART 3
Prereq.: ART 110 or 112. Historical development of painting, sculpture and architecture from Romulus to Constantine. *Spring.*
- 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. *Spring. Mode 4 [I]*
- ART 414 AMERICAN ART 3
Prereq.: ART 110 or 112 or 113. Historical development of painting, sculpture and architecture in America from the 17th century to the present. *Mode 4*
- ART 415 THE AFRICAN DIASPORA 3
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. *Mode 4 [I]*
- ART 416 MODERN ART 3
Prereq.: ART 110 or 112 or 113. Historical development of painting, sculpture and architecture from the late 19th century to the present. *Mode 4 [I]*
- ART 418 RENAISSANCE ART 3
Prereq.: ART 110 or 112 or 113. Historical development of European painting, sculpture and architecture from 1400 to 1600. *Irregular. Mode 4*
- ART 420 ISSUES IN CONTEMPORARY AMERICAN ART 3
Prereq.: ART 110, 112, or 113. American art post World War II to the present with emphasis on such topics as post modernism, public sculpture, feminist art, multiculturalism and contemporary art criticism. Includes visits to Hartford and New York galleries. *Fall. [O]*
- *ART 421 DESIGN—ADVERTISING I 3
Prereq.: ART 120 or 130 or 422. Selected topics in design theory and application in merchandising. *Spring. Mode 4*
- *ART 422 DESIGN—TWO AND THREE-DIMENSIONAL 3
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. *Mode 4*
- *ART 424 ILLUSTRATION III 3
Prereq.: ART 324. Topics in the development of individual media techniques.
- *ART 430 COLOR DRAWING 3
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. *Fall.*
- *ART 431 LIFE DRAWING I 3
Prereq.: ART 130 or 435. Structural approach to drawing the nude and clothed model with focus on gesture, proportion, and the figure in the environment. *Open to majors only.*
- *ART 432 LIFE DRAWING II 3
Prereq.: ART 431 or permission of department chair. Continuation of Art 431. *Open to majors only.*
- *ART 435 ADVANCED DRAWING 3
Prereq.: Permission of department chair. Emphasis on development of expressive use of line and value. Various materials used including ink, pencil, conti crayon, chalk, wire, charcoal and others.
- *ART 436 GRAPHIC DESIGN SKILLS III 3
Prereq.: ART 224 and 322, and Computer Proficiency Exam. Continuing development of the skills of the graphic designer. Special attention is given to a variety of techniques and application skills in practical commercial design projects. *[c]*

*ART 437 GRAPHIC DESIGN STUDIO INTERNSHIP 3
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. *[c]*

*ART 438 GRAPHIC DESIGN SKILLS IV 3
Prereq.: ART 436 and Computer Proficiency Exam. 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. *[c]*

*ART 439 CENTRAL DESIGN 3
Prereq.: ART 322 and permission of instructor. Studio practice, design and production of printed materials. *[c]*

ART 441 INTAGLIO II 3
Prereq.: ART 341, Graduate standing, or permission of instructor. Continuation of Intaglio 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 SILKSCREEN II 3
Prereq.: ART 343, graduate standing or permission of instructor. Continuation of Silkscreen I. *Spring.*

*ART 444 LITHOGRAPHY II 3
Prereq.: ART 344 or graduate standing or permission of the department chair. 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 chair 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. *Irregular. Mode 8*

BIO 107 PLANTS AND CIVILIZATION 3
How and when agriculture originated, when and where our most important crops became domesticated, need for conservation of germ plasm of wild relatives of crops, poisonous plants, economics and social importance of non-seed plants. No credit given toward biology major, minor or concentration. *Spring (O). 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—introduction to the plants of Connecticut. Naturalistic approach dealing with common names and practical information. Field walks and plant collections required. 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. *Mode 8*
- 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. Lectures and laboratories. *Summer. Mode 8*
- 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 two-hour laboratory per week. *[c] Mode 8*
- 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.
- 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.
- 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 three-hour laboratory per week. *[c]*
- BIO 227 VASCULAR PLANTS 4**
Prereq.: BIO 121. Phylogenetic relationships, taxonomy, distribution and economic significance of vascular plants. Emphasis is placed on the seed plants. Three lectures and one three-hour laboratory per week.
- 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. *Not open to Biology majors. Mode 8*
- 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 three-hour laboratory per week. *[c]*
- 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 one three-hour laboratory period 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 three-hour laboratories per week. *Spring. [c]*
- 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. *Spring. [c]*
- BIO 390 SPECIAL PROBLEMS IN BIOLOGY 1-6**
Prereq.: Written permission of instructor(s) and department chair 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 and to graduate students with permission of the department chair. 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 per week. *Fall.*
- 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. *Spring.*
- 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. *Fall.*
- BIO 413 HUMAN PHYSIOLOGY LABORATORY 1**
Prereq. or Coreq.: BIO 412. Laboratory course to accompany BIO 412. One three-hour laboratory per week. *Fall.*
- 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. *Spring.*

- 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. *Spring*.
- BIO 418 HUMAN ANATOMY, PHYSIOLOGY, PATHOPHYSIOLOGY 6
Prereq.: BIO 122 or equivalent, CHEM 450/451 or 311 or permission of instructor. For students in anesthesia and health sciences; others require permission of anesthesia program coordinator. 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. *Summer*.
- BIO 420 ORNITHOLOGY 4
Prereq.: BIO 122 or permission of instructor. Life histories, physical and physiological adaptations, evolution, ecology and behavior of birds. Laboratories will include field identification and other behavioral and ecological research techniques. Three hours of lecture and one three-hour field or laboratory period per week. [e]
- BIO 425 AQUATIC PLANT BIOLOGY 4
Prereq.: BIO 121 or equivalent. Ecology and classification of microalgae, macroalgae, and vascular plants from marine, estuarine, and freshwater environments. Laboratories and field trips include collection and identification of plants from Connecticut aquatic habitats. Three lectures and one three-hour laboratory per week. *Fall*. [e]
- BIO 434 ECOLOGY OF INLAND WATERS AND ESTUARIES 4
Prereq.: BIO 122 or equivalent and CHEM 122. A comparison of freshwater and estuarine environments with emphasis on physical and chemical parameters influencing the distribution of aquatic organisms: nutrient cycling; and factors affecting aquatic productivity. Three one-hour lectures and one three-hour laboratory per week. Some Saturday field trips required. *Fall*. (O)
- BIO 436 ENVIRONMENTAL RESOURCES AND MANAGEMENT 3
Prereq.: BIO 122, CHEM 122; or permission of instructor. Analysis of the interactions of human population-resource depletion-pollution at local to global scales from an environmental/protection perspective. Emphasis upon better understanding the impacts of over-population and methods for control, significance and loss of biodiversity, aquatic pollution, and global climate change. *Spring*. (e). [c]
- BIO 438 AQUATIC POLLUTION 4
Prereq.: BIO 122 and CHEM 122. Study of the various types of aquatic pollutants, their sources and control/treatment, and the effects of water pollution upon aquatic ecosystems; as well as Federal and State water pollution regulatory programs. Laboratory will include field collection of water samples and measurement of indicators of water quality. Three lectures and one three-hour laboratory per week. *Spring* (o).
- 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 444 PLANT TAXONOMY 3
Prereq.: BIO 121. Scientific approach to identification and classification and of locally occurring plants using taxonomic keys. Includes ferns, fern allies, conifers, and flowering plants with emphasis on the latter. Field walks and plant collections required. Two lectures and one three-hour laboratory per week. *Irregular*. Mode 8
- BIO 449 PLANT PHYSIOLOGY 3
Prereq.: BIO 121 and CHEM 121. Basic principles behind how plants function. Emphasis on the soil-plant-air continuum, phloem transport, photosynthesis, and mechanisms of plant responses to the environment. *Irregular*.
- BIO 450 INVESTIGATIONS IN PLANT PHYSIOLOGY 1
Prereq.: BIO 449 or permission of instructor. Investigative laboratory in plant physiology. Topics include water potential, transpiration, mineral nutrition, phloem transport, photosynthetic and respirational gas exchange, photosynthetic electron transfer, plant movements, and plant hormones. One three-hour lab per week. *Irregular*.
- 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*.
- BIO 480 ANIMAL BEHAVIOR 4
Prereq.: BIO 122 and junior standing or permission of instructor. Adaptive functions, evolutionary history, control, and development of behavior in vertebrates and invertebrates. Laboratories focus on techniques of observation, experimental design, and data analysis. Three hours of lecture and three hours of laboratory per week. *Fall*. (e).
- BIO 481 COMPARATIVE ANATOMY 4
Prereq.: BIO 122. Representative types emphasizing comparative morphology of various organ systems. Laboratory work chiefly on dogfish, salamander and rabbit. Two lectures and two three-hour laboratories per week. *irregular*.
- 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. *regular*.
- ## 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 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
Prereq.: 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 456 TOXICOLOGY 3
Prereq.: CHEM 312 or 450, and BIO 122. Classes of toxic chemicals, and their biotransformation and mechanisms of toxicity in humans. Includes natural and man-made chemicals, methods and risk assessment, and environmental and occupational regulatory standards. *Fall*
- 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 chair. *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 chair. *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 chair. *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 233 INTRODUCTION TO PUBLIC RELATIONS 3
Prereq.: COMM 230, communication majors only. Survey all aspects of public relations including theories of image-making, events planning, publicity, promotion, media campaigning, and crisis management.

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 253 INTRODUCTION TO ORGANIZATIONAL COMMUNICATION 3
Introduction to the structure, function and process of communication in organizational life and modern society.

- 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 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 315 POLITICAL COMMUNICATION 3
Prereq.: COMM 245. Examines the symbolic nature and dimensions of American politics and the American political system. Emphasis places on the role, processes and effects of communication in political contexts.
- 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 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 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 430 COMPARATIVE MASS MEDIA SYSTEMS 3
Prereq.: COMM 230. Philosophies and strategies of mass media operation around the world, emphasizing regional rather than national differences. Identification of basic philosophical orientations and theoretical underpinnings.
- COMM 433 PUBLIC RELATIONS STRATEGIES AND TECHNIQUES 3
PREREQ.: COMM 233. Public relations strategies and techniques through analysis and practical applications.
- 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 450 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 452 HEALTH COMMUNICATION CAMPAIGNS 3
Explores the issues related to the development and implementation of health communication campaigns. Basic principles, theories, and concepts governing them.
- 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 relationship between communication and social change and the impact of socio-political and communication strategies on the achievement of effective community development and social change objectives. *[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 chair. 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 chair. 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
Introduction to computer programming together with the consideration of the impact of computers on society. Emphasis on logical problem-solving and algorithms. 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 COMPUTER SCIENCE I 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 COMPUTER SCIENCE II 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 161 C PROGRAMMING 1
Prereq.: CS 152. Introduction to programming for students with substantial computer science background. *[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 161, 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 microprogramming 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-entrance 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 152 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 CORRECTIONAL THEORY AND PRACTICE 3
Prereq.: CJ 235. Overview of corrections in America to include sentencing, probation, classification, incarceration, community corrections and parole. Critical analysis of goals of sentencing, correctional organizational and management, alternatives to incarceration, and theories of behavioral change. *On demand. Mode 6*

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 450 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 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. 151-158 are Area D courses. They are general activity courses, open to all students.

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

DAN 275 is an Activity course, open to majors only

DAN 275	MODERN DANCE & THEORY	1
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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. *Mode 8*

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. *Mode 8*

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. *Irregular. Mode 8*

ESCI 117 INTRODUCTION TO 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. *Mode 8*

ESCI 118 INTRODUCTION TO 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. *Mode 8*

ESCI 121 PHYSICAL GEOLOGY 3
Basic principles of development of the earth, earth materials and agents responsible for existing surface features. *Mode 8*

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. *Spring. Mode 8*

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. *Fall. Mode 8*

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. *Mode 8*

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. *Spring. Mode 8*

ESCI 218 WOMENS CONTRIBUTIONS TO
STELLAR AND GALACTIC ASTRONOMY 3
Prereq.: ESCI 118 or 179 or permission of instructor. Exploration of the astronomical discoveries made by women astronomers, including their methodology, consequences and the social constraints places upon them. Two lectures and one two-hour laboratory period per week. *On demand. Mode 8*

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. *Fall. (E)*

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. *Spring. (E)*

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. *Fall. Mode 8*

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. *On demand.*

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. *Spring. (E)*

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. *Spring. (E)*

ESCI 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. *Fall. (O)*

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. *Fall. (O)*

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. *Fall. (O) Mode 8*

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 431 HYDROGEOLOGY: INTRODUCTION 4
Prereq.: ESCI 121, Math 126 or 221, and PHYS 121 or 125. Basic hydrologic principles. Overview of hydrologic and geologic relationships of ground and surface water, contamination and cleanup. Fluid mechanics with application to porous media and open channel flow. Quantitative techniques will be used. Three lectures and one two-hour laboratory recitation per week. *Fall*

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 chair. 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 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 150 CONTEMPORARY ECONOMIC ISSUES 3
An application of economic thinking to contemporary issues. Topics include federal deficits, regulation on business, income distribution, unemployment, military spending, consumer protection, technical change, and environmental degradation. Cannot be counted toward the economics major. *Irregular. Mode 7.*

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 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 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 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 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

At the time this catalog is being published, the School of Education and Professional Studies faculty is in the process of redesigning all of the education certification preparation programs. The State of Connecticut has also issued new certification requirements, to go into effect for those who will be applying for certification effective July 1, 1998. As a result, there will be a catalog supplement explaining the new curriculum and degree requirements sometime in the Spring 1996 semester.

- 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.

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 activities culminating in the student assuming complete responsibility for planning and executing units of instruction.
Student teaching courses (EDEL 411 and 412) may not be repeated without the permission of the Director of Clinical Practices, as well as the chairs of the student's major department and teacher education.
- EDEL 498 INDIVIDUAL STUDY PROJECT 2-6
Prereq.: Permission of Department chair. 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 THEORIES IN SECONDARY EDUCATION 2
Prereq.: PSY 235 or 236. Processes of learning as applied to the student in grades K-12. Field experience required.
- EDSC 300 PRE-PRACTICUM 1
On-site experience, including classroom observations and tutoring, with faculty and students in a public school setting. Taken concurrently with EDSC 256 and SPED 470.
- EDSC 375 PRINCIPLES AND EVALUATION IN EDUCATION (K-12) 3
Prereq.: EDSC 256 and admission into 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 educational and professionalism. Field experience will be required. (For Art, Music, Technology Ed., and Phys. Ed. K-12: junior and senior years.)
- EDSC 383 PRINCIPLES AND EVALUATION IN SECONDARY EDUCATION 4
Prereq.: EDSC 256 and admission to Professional Program. General methods of instruction and evaluation of learning in the middle and high school classroom, including curriculum planning and revision, techniques of classroom management, and responsibilities of the teacher in the 7-12 classroom.
- 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.

Student teaching courses (EDSC 413, 414, 415, 417, 419, 420, 429, 435) may not be repeated without the permission of the director of Clinical Practices, as well as the chairs of the student's major department and teacher education.

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; EDUCATION TECHNOLOGY MEDIA

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 3
ENGINEERING TECHNOLOGY

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 required. *[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 required.
- 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 required. *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 required. *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 required. [*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 required. [*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 required.
- 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. Required. *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
- ECE 099 REMEDIAL ENGLISH non-credit
This non-credit course helps students to improve basic writing skills in order to meet entering requirements for English 110, Freshman Composition. After review of grammar and punctuation, the course emphasizes sentence and paragraph formation and the development of the coherent essay.
- 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
Study of fiction, drama and poetry. Not recommended for English majors. No credit given to students with credit for either ENG 260 or 261 or 262. *Irregular*. *Mode 3*

NOTE: ENG 110 OR AN EQUIVALENT IS A PREREQUISITE FOR ALL OTHER ENGLISH COURSES.

- *ENG 200 INTRODUCTION TO LINGUISTICS 3
The structure and system of language with English as the subject of analysis: history, phonology, morphology, syntax, semantics, usage. *Mode 6*
- *ENG 202 INTERMEDIATE COMPOSITION 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. *Area A*
- *ENG 205 BRITISH LITERATURE I 3
Major British writers from the beginnings through the 18th century. *Not a prerequisite for ENG 206. Mode 3*
- *ENG 206 BRITISH LITERATURE II 3
Major British writers from the late 18th century to the present. *ENG 205 is not a prerequisite. Mode 3 [I]*
- *ENG 210 AMERICAN LITERATURE I 3
American literature from the Colonial Period to the Civil War. *Not a prerequisite for ENG 211. Mode 3*
- *ENG 211 AMERICAN LITERATURE II 3
American literature from the Civil War to the present. *ENG 210 is not a prerequisite. Mode 3*
- ENG 212 AFRICAN-AMERICAN LITERATURE 3
Survey of African American writers from the sixteenth through twentieth centuries. *Fall. Mode 3.*
- ENG 215 INTRODUCTION TO WOMEN WRITERS 3
Introduction to women writers primarily in the eighteenth, nineteenth, and twentieth centuries, focusing on British and American poetry and prose. *Spring. Mode 3.*
- *ENG 220 SHAKESPEARE 3
Selected tragedies, comedies and history plays. *Mode 3*
- ENG 230 THE STUDY OF LANGUAGE 3
General concepts of language as it evolved in thought, society, literature and scientific analysis with emphasis on universal characteristics and relevance to contemporary English. *Mode 6*
- *ENG 235 JOURNALISM I 3
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. *Area A*
- *ENG 236 JOURNALISM II 3
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. *Spring. Area A*
- *ENG 250 CONTEMPORARY LITERATURE 3
Modern fiction, plays and poetry in relation to modern life. *Mode 3*
- 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 given to students with credit for ENG 111. *Mode 3*
- ENG 261 INTRODUCTION TO FICTION 3
A close analysis of the elements, structure and technique of short stories and novels. No credit given to students with credit for ENG 111. *Mode 3*

- ENG 262 INTRODUCTION TO DRAMA 3
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 given to students with credit for ENG 111. *Mode 3 [I]*
- ENG 270 DRAMATIC ENACTMENT 3
Introduction to the theory and applications of creative drama as an interpretive tool and a response to literature. *Spring. (E)*
- ENG 274 STORYTELLING 3
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. *Spring. (O)*
- ENG 288 STUDIES IN LITERATURE 3
Selected topics to be announced each semester. Students may not take this course under the same topic more than once. *Irregular. Mode 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.**
- ENG 300 LANGUAGE ACQUISITION 3
A study of how we acquire our first language; child language, regional and social dialect, register, style, and idiolect. *Fall. Mode 6*
- ENG 332 MEDIEVAL ENGLISH LITERATURE 3
Old English and Middle English literature, exclusive of Chaucer, from the eighth through the 14th centuries. Most materials read in translation. *Fall. Mode 3*
- ENG 333 THE ENGLISH RENAISSANCE 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. *Spring. Mode 3*
- ENG 334 SEVENTEENTH-CENTURY POETRY AND PROSE 3
British poetry and prose of the earlier 17th century, including Donne, Herbert, Marvell, Bacon, Burton and Browne. *Fall. Mode 3*
- ENG 335 RESTORATION AND EIGHTEENTH-CENTURY LITERATURE 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. *Spring. Mode 3*
- ENG 336 THE ROMANTIC AGE 3
British Literature from Blake to 1832, including Wordsworth, Coleridge, Byron, Shelley and Keats. *Fall. Mode 3 [I]*
- ENG 337 THE VICTORIAN AGE 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. *Spring. Mode 3 [I]*
- ENG 339 MODERN BRITISH 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. *Fall. 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. *Fall. Mode 3*

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 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 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 400	ANALYTICAL SKILLS IN LANGUAGE	3	Intensive analysis (syntactic, morphological, phonological) of selected data from English and other languages. Particular emphasis on developing analytical skills. <i>Fall. Mode 6</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 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 345	MODERN AFRICAN-AMERICAN LITERATURE	3	Study of selected writers beginning with the Harlem Renaissance. <i>Spring. Mode 3.</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 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 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 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 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 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 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 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 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 371	CREATIVE WRITING	3	Writing of short fiction. <i>Fall. Area A</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 372	CREATIVE WRITING	3	Writing of short fiction. <i>Spring. Area A</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 373	CREATIVE WRITING	3	Writing of poetry. <i>Fall. Area A</i>	ENG 431	THE HISTORY OF THE ENGLISH LANGUAGE	3	History, growth and structure of the English language. <i>Spring. Mode 6</i>
ENG 374	CREATIVE WRITING	3	Writing of poetry. <i>Spring. Area A</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 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 445	AMERICAN DRAMA	3	Development of American drama and its contribution to literature. <i>Spring. Mode 3</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 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 449 MAJOR AMERICAN AUTHOR 3
Intensive study of the writings, life, influence and historical milieu of a major American author. Authors will vary each year. May be repeated under different author subjects for a maximum of six credits. *Irregular. 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 487 TWENTIETH-CENTURY BRITISH DRAMA 3
Study of major British playwrights of the twentieth century. Selections may be from the works of Shaw, Coward, Maugham, O'Casey, Eliot, Beckett, Osborne, Pitner, Shaffer, Ayckbourn, Churchill, Gray Hare, Stoppard and others. *Irregular. 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 chair. 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 chair. 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. *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. *Spring.*
- ## ENTREPRENEURSHIP
- Enrollment in 300- and 400-level Business courses requires admission to the School of Business or permission of the Associate 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. *Business majors cannot receive credit for this course. Area C*

ENT 301 **ENTREPRENEURSHIP AND NEW VENTURE CREATION** **3**

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.

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**

Provides students with a working knowledge of actual firms by working closely with individual entrepreneurs to develop business plans.

FINANCE

Enrollment in 300- and 400-level Business courses requires admission to the School of Business or permission of the Associate to the Dean.

FIN 200 **INTRODUCTION TO FINANCE** **3**

Prereq.: STAT 200 & AC 211. This course provides a basic understanding of fundamental topics in finance, i.e., interest rates, time value, the relationship of risk to return and financial management. Quantitative aspects of the study of finance will be minimized. Non-business majors may take this course and use it to fulfill the finance requirement in a business concentration. Business majors may take this course only as a free elective, and prior to taking FIN 300. *Area C*

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 296 **INTERNSHIP IN COMMUNITY BASED FINE ARTS** **3**

Prereq.: Permission of department chair in Art, Music or Theatre. Research and instruction in unified arts directed towards community based arts activities and programs.

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 chair. *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. *Area B [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 chair. *Area B [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 chair. *Area B [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. *Area B [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. *Spring. Area B [I]*
- FR 301 APPROACHES TO READING FRENCH TEXTS 3
Prereq.: FR 225 or instructor's permission. Introduction to various literary genres, with emphasis on reading comprehension, structure, theme, characterization and literary techniques. *Fall. (O) [I]*
- FR 305 LITERARY MASTERPIECES SINCE 1800 3
Prereq.: FR 226 (may be taken concurrently). Introduction to major works in French literature since 1800. *Spring. Mode 3 [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]*
- FR 335 FRENCH COMPOSITION AND DICTION II 3
Prereq.: FR 226. Additional practice in written and oral expression. *Fall. [I]*
- FR 336 ADVANCED STRUCTURE AND IDIOM 3
Prereq.: FR 335. Additional practice in idiomatic usage and verbal fluency. *Spring. [I]*

- FR 389 19TH CENTURY FRENCH LITERATURE 3
Prereq.: FR 305 or instructor's permission. Development of various literary genres from Romanticism to Symbolism. *Fall. (E) [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. *Fall. [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. *Spring. [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. *Spring. [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. *Fall. [I]*
- FR 442 ADVANCED ORAL PRACTICE II 3
Prereq.: FR 441 or permission of instructor. Continuation of French 441. *On request. [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. *Fall. (E) [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. *Fall. [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. *Fall. [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. *Fall. (O) [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. *Spring. (E) [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. *Fall. Mode 7*
- GEOG 110 INTRODUCTION TO GEOGRAPHY 3
Basic patterns of physical environment and relationship of human patterns to them are explained. *Mode 7*

- 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. *Mode 7 [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. *Mode 7 [I]*
- GEOG 241 INTRODUCTION TO PLANNING 3
 Introduction to the principles and practice of planning at various spatial scales — regional, metropolitan, urban and neighborhood. *Mode 7*
- 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. *Mode 7 [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. *Mode 7*
- 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
 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. *Spring 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. *Fall. 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 chair. 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
 Prereq.: Permission of the department chair. 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
 Prereq.: Permission of the department chair. 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. *Fall. (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. 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. (O) 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. *Spring. (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. *Fall. 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 445 ENVIRONMENTAL PLANNING 3

Prereq.: GEOG 110 or permission of instructor. Examines the environmental impacts of land development and natural constraints on planning and public policy decision-making. Case studies and field work will emphasize aspects of environmental planning in the Greater Hartford region. *Spring.*

GEOG 446 SUB-SAHARAN AFRICA 3

Relationships between physical environment and human development in Africa south of the Sahara. *Spring (O). 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 Mode 7*

GEOG 450 TOURISM PLANNING 3

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. *Fall. 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

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. *Fall. 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 outside the United States. Only 3 credits may be applied to General Education requirements. *Winter and Summer. Mode 7. [I]*

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. (E) [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. *Spring. (E) 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 chair. *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 chair. *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 chair. *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. <i>Fall.</i> [I]		
GER 336	ADVANCED STRUCTURE AND IDIOM	3	
	Prereq.: GER 335. Additional practice in idiomatic usage and verbal fluency. <i>Spring.</i> [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. <i>Fall.</i> <i>Mode 3</i> [I]		
GER 379	19TH CENTURY GERMAN LITERATURE	3	
	Prereq.: GER 305 or equivalent. Literature of Romanticism, Realism and Naturalism. <i>Spring.</i> (O) [I]		
GER 380	20TH CENTURY GERMAN LITERATURE	3	
	Prereq.: GER 305 or equivalent. Literature of Impressionism, Expressionism, <i>Neue Sachlichkeit</i> and other modern movements. <i>Fall.</i> (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. <i>On request.</i> [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. <i>Fall.</i> [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. <i>Fall.</i> <i>Area B</i>		
GRK 112	ELEMENTARY ANCIENT GREEK II	3	
	Prereq.: GRK 111. Continuation of GRK 111. <i>Spring.</i> <i>Area B</i>		
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. <i>Mode 5</i>		
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. <i>Mode 5</i>		
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. <i>Mode 5</i> [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. <i>Mode 5</i>		
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. <i>Mode 5</i> [I]		
HIST 231	ANCIENT CIVILIZATION	3	
	Cultures of ancient Middle East and Mediterranean. <i>Fall.</i> <i>Mode 5</i>		
HIST 232	MEDIEVAL CIVILIZATION	3	
	European history and institutions from the fall of Rome to 1300. <i>Spring.</i> <i>Mode 5</i>		
HIST 261	HISTORY OF AMERICAN LIFE I	3	
	Political, economic, social and cultural development to 1865. <i>Mode 5</i>		
HIST 262	HISTORY OF AMERICAN LIFE II	3	
	Political, economic, social and cultural development since 1865. <i>Mode 5</i>		
HIST 330	HISTORY OF WOMEN IN THE UNITED STATES, 1620-PRESENT	3	
	Survey of women in the United States since the colonial period with special emphasis how race, class and ethnicity shaped women's experience. <i>Spring.</i> <i>Mode 5.</i>		
HIST 341	ENGLISH HISTORY TO 1715	3	
	Forces contributing to the growth of English civilization and development of Great Britain. <i>Fall.</i> <i>Mode 5</i>		
HIST 342	ENGLISH HISTORY SINCE 1715	3	
	Continuation of HIST 341. <i>Spring.</i> <i>Mode 5</i> [I]		
HIST 344	HISTORY OF MODERN GERMANY	3	
	German history from 1871 to the present. <i>Fall.</i> (O) <i>Mode 5</i> [I]		
HIST 346	HISTORY OF FRANCE: 1789 TO PRESENT	3	
	French history since the Great Revolution. <i>Spring.</i> (E) <i>Mode 5</i> [I]		
HIST 347	HISTORY OF RUSSIA I	3	
	History of Russia from the ninth century to 1861. <i>Fall.</i> <i>Mode 5</i> [I]		
HIST 348	HISTORY OF RUSSIA II	3	
	History of Russia from 1861 to the present. <i>Mode 5</i> [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. <i>Fall.</i> (O) <i>Mode 5</i> [I]		
HIST 351	EAST ASIA TO 1800	3	
	Political, cultural, economic and social history of East Asian countries. <i>Fall.</i> <i>Mode 5</i>		
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. <i>Spring.</i> <i>Mode 5</i> [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. <i>Spring.</i> (O) <i>Mode 5</i> [I]		
HIST 361	THE WEST IN UNITED STATES HISTORY	3	
	Westward movement and its significance in American history. <i>Fall.</i> <i>Mode 5</i>		
HIST 369	AFRICAN-AMERICAN HISTORY	3	
	Survey of African-American life from the slave trade through the 1970s. <i>Fall.</i> (E) <i>Mode 5</i>		
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. <i>Spring.</i> <i>Mode 5</i>		

HIST 375	HISTORY OF AFRICA TO 1800	3	HIST 442	EUROPEAN HISTORY, 1650 TO 1815	3
An examination of economic, social and political developments in Africa to the end of the 18th century. <i>Spring. Mode 5</i>			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 376	HISTORY OF AFRICA SINCE 1800	3	HIST 443	EUROPEAN HISTORY, 1815-1918	3
An examination of economic, social and political developments in Africa from the end of the 18th century to the present. <i>Spring. Mode 5</i>			Political, economic and social institutions in relation to rise of liberalism, nationalism, socialism and imperialism. <i>Fall. Mode 5 [I]</i>		
HIST 377	HISTORY OF CHRISTIANITY I	3	HIST 444	EUROPEAN HISTORY, 1918 TO PRESENT	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. <i>Fall. (O) Mode 5</i>			National and international problems of European states. <i>Spring. Mode 5 [I]</i>		
HIST 378	HISTORY OF CHRISTIANITY II	3	HIST 445	EUROPEAN INTELLECTUAL HISTORY, 1750-1870	3
Christianity from 1450 A.D. to present. Continuation of Christianity I. <i>Spring. (O) Mode 5</i>			Main currents of European thought and culture from 1750 to 1870. <i>Fall. (E) Mode 5 [I]</i>		
HIST 381	LATIN AMERICAN HISTORY TO 1823	3	HIST 446	EUROPEAN INTELLECTUAL HISTORY, 1870-PRESENT	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 1870 to the present. <i>Spring. (E) Mode 5 [I]</i>		
HIST 382	LATIN AMERICAN HISTORY SINCE 1823	3	HIST 453	HISTORY OF MODERN CHINA	3
Social, economic, political and cultural development of Latin American countries since 1823. <i>Spring. (O) Mode 5 [I]</i>			China during the late Ch'ing, Republican and Communist periods. <i>Fall. Mode 5 [I]</i>		
HIST 423	COLONIAL PERIOD OF AMERICAN HISTORY	3	HIST 454	HISTORY OF MODERN JAPAN	3
Prereq.: HIST 261 or permission of instructor. Development of America to 1763. <i>Fall. Mode 5</i>			Japan during the 19th and 20th centuries. <i>Spring. Mode 5 [I]</i>		
HIST 424	ESTABLISHMENT OF A NEW NATION	3	HIST 456	CHINESE INTELLECTUAL HISTORY	3
Prereq.: HIST 261 or permission of instructor. Establishment of the United States of America from 1763 to 1800. <i>Spring. Mode 5</i>			The major intellectual, social and political texts that shaped the Chinese historical tradition and formed the basis for the development of East Asian civilization. <i>Spring. (o). Mode 5.</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 469	AFRICAN -AMERICANS IN THE TWENTIETH CENTURY	3
Emphasis on economic and industrial development of the period since the Industrial Revolution. <i>Fall. Mode 5 [I]</i>			Political, economic, social and cultural developments in Black America since 1900. <i>Fall. (O) Mode 5</i>		
HIST 433	HISTORY OF ANCIENT GREECE	3	HIST 472	MODERN MIDDLE EAST	3
Greek institutions from the Mycenaean period to the accession of Constantine. <i>Spring. 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 434	HISTORY OF ANCIENT ROME	3	HIST 473	HISTORY OF JUDAISM	3
Roman institutions from the regal period to the reign of Constantine. <i>Spring. Mode 5</i>			Historical development of Judaism from Abraham to the present. <i>Spring. (O) Mode 5</i>		
HIST 435	HISTORY OF EARLY MEDIEVAL EUROPE	3			
The late Roman empire to the 11th century. <i>Spring. (E) Mode 5</i>					
HIST 436	HISTORY OF LATER MEDIEVAL EUROPE	3			
The Crusades to the Great Schism. <i>Spring. (O) Mode 5</i>					
HIST 441	RENAISSANCE AND REFORMATION	3			
History of Europe during the Age of Transition and the Era of the Religious Wars, 1300-1648. <i>Fall. (E) Mode 5</i>					

HIST 474 HISTORY OF THE ARAB-ISRAELI CONFLICT 3

History of the Arab-Israeli conflict from the time of Israel's creation as a modern nation-state until the present. *Spring. Mode 5*

HIST 480 MODERN POLAND 3

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. *Fall. (E) Mode 5*

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 490 SENIOR SEMINAR 3

Senior seminar. *Fall. 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*

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 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. *Spring.*

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. *Fall.*

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. *Spring.*

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. *Fall.*

IT 360 PRODUCTION CONTROL 3

Analysis of skills required in supervising manufacturing departments. Emphasis upon production technologies, machine and tool operations and process control. *Area C*

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 chair. 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 chair of the Industrial Technology Department. Graded on a pass-fail basis only.		
IT 402	TOPICS IN TECHNOLOGY	1-3	
	Prereq.: Permission of the department chair 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	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 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>Fall. 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 421	EVALUATION TECHNIQUES IN INDUSTRIAL HYGIENE	3	
	Prereq.: IT 411 or permission from instructor. Continuation of Industrial Hygiene with emphasis on instrumentation, data collection, interpretation and applications to safety standards and regulations. <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. <i>Spring.</i>		
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 summarization. <i>On request. Area C</i>		
IT 456	HAZARDOUS MATERIAL MANAGEMENT	3	
	Study of environmental regulations and their impact on industrial operations. Emphasis is on application of statutes, regulations, and information sources concerning hazardous materials, waste handling, and technical decisions pertinent to environmental and safety issues. <i>Spring.</i>		
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. <i>Fall.</i>		
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. <i>Spring.</i>		
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. <i>Fall and Summer. [c]</i>		

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 101 WESTERN CULTURE I
 Prereq.: Honors Program participant. Selected topics from ancient Greek and Roman cultures. *Spring. All modes except 2, 8 and Area D.*

ID 105 SCIENCE AND SOCIETY I 3
 Prereq.: Honors Program participant. Selected topics from the natural sciences and their relation to society. *Spring. Mode 8.*

ID 106 WORLD CULTURES I 3
 Prereq.: Honors Program participant. Introduction to the comparative study of cultures. *Fall. All modes except 2, 8 and Area D.*

ID 107 CRITICAL THINKING AND PERSUASIVE WRITING 3
 Prereq.: Honors Program participant. Principles of critical thinking and persuasive writing, with applications to written and oral presentations. *Fall. All modes except 2, 8 and Area D.*

ID 202 SCIENCE AND SOCIETY II 3
 Prereq.: Honors Program participant. Selected topics from the social sciences and their relation to society. *Fall. All modes except 2, 8 and Area D.*

ID 203 WORLD CULTURES II 3
 Prereq.: Honors Program participant. Selected topics from African and African-American cultures. *Spring. All modes except 2, 8 and Area D.*

ID 204 WESTERN CULTURE II 3
 Prereq.: Honors Program participant. Selected topics in Western Culture from the Middle Ages through the Enlightenment. *Fall. All modes except 2, 8 and Area D.*

ID 205 WESTERN CULTURE III 3
 Prereq.: Honors Program participant. Selected topics from 19th Century Western Culture. *Spring. All modes except 2, 8 and Area D.*

ID 300 WESTERN CULTURE IV 3
 Prereq.: Honors Program participant. Selected topics from 20th Century Western Culture. *Fall. All modes except 2, 8 and Area D.*

ID 302 WORLD CULTURES III 3
 Prereq.: Honors Program participant. Selected topics from Asian cultures. *Fall. All modes except 2, 8 and Area D.*

ID 410 THESIS PREPARATION AND PROPOSAL 1
 Prereq.: Honors Program participant. Methodology of thesis writing and presentation of thesis proposal. *Fall. All modes except 2, 8 and Area D.*

ID 420 HONORS RESEARCH 3
 Prereq.: Honors Program participant. Independent research developed from previous Honors Program courses. *Spring. 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 Associate 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

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 [I]*

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 230 TOPICS IN INTERNATIONAL STUDIES 3
 Interdisciplinary examination of selected topics in international studies not otherwise offered by departments or International Studies. May be repeated with different topics for up to 6 credits. *Irregular. Mode 6 or 7 [I]*

IS 240 CARIBBEAN CULTURAL PATTERNS 3
 Multi-disciplinary study of the people who inhabit the islands and margins of the Caribbean Sea, with a focus upon their problems and accomplishments. This course may be taught in Spanish. *Irregular. Mode 6 or 7. [I].*

IS 245 PUERTO RICO 3
 Multi-disciplinary study of the Island of Puerto Rico and its people. Topics to be studied may include cultural development, international relations, problems, and prospects. This course may be taught in Spanish. *Irregular. Mode 6 or 7. [I].*

IS 450 INTERNSHIP IN INTERNATIONAL STUDIES 3
 Students will work under faculty supervision in an international environment related to their academic track or planned program. Written reports are required. Additional work required for graduate credit. *On demand.*

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.*

IS 490 FIELD STUDIES ABROAD 6
Course taught abroad. May be repeated for a maximum of 6 credits.
Area B. [I].

IS 497 SEMINARS IN INTERNATIONAL STUDIES 3
Prereq.: Permission of instructor. Interdisciplinary seminar on one of the world's regions or countries. Aspects of its anthropology, economics, geography, history, government, politics and sociology will be considered in a synthetic approach. *Area B. [I].*

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 chair. *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 chair. *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 chair. *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. [I]*

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 chair. *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*

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*

MANAGEMENT

Enrollment in 300- and 400-level Business courses requires admission to the School of Business or permission of the Associate to the Dean.

MGT 301 FUNDAMENTALS OF MANAGEMENT AND ORGANIZATIONAL BEHAVIOR 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 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.

MGT449 STRATEGIC MANAGEMENT 3
Prereq.: MGT 301, FIN 300, and MKT 303. An examination of the top-level managerial process of strategic management including strategy formulation and implementation, and environmental and competitive analysis with special emphasis on methods of organizational development to effect change.

MGT 450 INTEGRATIVE BUSINESS STRATEGY & POLICY (Formerly MGT 430) 3
Prereq.: Senior standing and FIN 300, MGT 301 and MKT 303. A course that provides the opportunity to integrate the content and experiences from the School of Business Core courses into a meaningful total organizational entity. The primary focus is on the relationships between and among the various business functions. Methodology is real-world oriented through use of simulations, cases, or field work.

MGT 460 STAFFING AND DEVELOPMENT 3
Prereq.: MGT 305. A study of issues related to the staffing of an organization and development of the organization's employees. Specific topics include human resource planning, recruitment, selection, placement, training, performance appraisal, equal employment opportunity, and related topics.

MGT 462 ISSUES IN HUMAN RESOURCE MANAGEMENT 3

Prereq.: MGT 305. An in-depth analysis of selected functional responsibilities within the Human Resource Management spectrum. Covers such topics as: selection, training, employee, and executive compensation plans, employee benefits, and other practices of Human Resource professionals and organizations.

MGT 470 ORGANIZING AND MANAGING FOR QUALITY 3

Prereq.: MGT 301. Examines leading organizational architecture that employs quality management in all activities of the enterprise. Explores how competitive strength is built by enabling the work force to innovate, so that products and service meet global customer standards.

MGT 472 DEVELOPMENTAL MANAGEMENT 3

Prereq.: MGT 301. An examination of those humanistic managerial approaches which focus upon the interdependencies in organizations that effective their capacities for organizational learning and development. A multi-cultural perspective is taken in building an eclectic understanding of managing.

MGT 481 MANAGEMENT OF NOT-FOR-PROFIT 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 Associate to the Dean.

MIS 110 DECISION MAKING AND PROBLEM SOLVING IN BUSINESS - DATABASE 3

Knowledge and understanding necessary for using computer software tools to solve problems and make decisions in business. Ability to transfer concepts across similar software packages. Relevant database software packages are used. *On demand. [c]*

MIS 120 DECISION MAKING AND PROBLEM SOLVING IN BUSINESS - EXPERT SYSTEMS 3

Knowledge and understanding necessary using computer software tools to solve problems and make decisions in business. Ability to transfer concepts across similar software packages. Relevant expert systems software packages. Relevant spreadsheet software packages are used. *On demand. [c]*

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 310 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 311 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 450 ENTERPRISE STRATEGIES
AND TRANSFORMATIONS 3**

Prereq.: Senior standing. Organizational transformations are critical for continued market success in an increasingly complex and dynamic global environment. Emphasizes integrative strategies spanning all business functions which are needed by evolving and established enterprises.

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. *Irregular. [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 Associate to the Dean.

MKT 303 FUNDAMENTALS OF MARKETING 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 MARKETING CHANNELS 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 COMPETITIVE STRATEGY 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 chair, 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 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 110 FINITE MATHEMATICS 3
 Prereq.: STAT 104 or 200 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*

- MATH 113 STRUCTURE OF MATHEMATICS I: NUMBER SYSTEMS 3
 Prereq.: ECM 099 or Placement Exam. Problem solving approach to inductive reasoning, sets, numeration, number theory, integer properties and operations, rational number properties and numeration. No credit given to those with credit for MATH 366. Elementary Education certification candidates only. *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 213 STRUCTURE OF MATHEMATICS II: PROBABILITY AND GEOMETRY 3
 Prereq.: MATH 113. Problem solving approach to deductive reasoning and logic, probability, descriptive statistics, point set, metric, analytic and transformational geometry; and properties of plane and solid figures. No credit given to those with credit for MATH 323 or 333. *Elementary Education certification candidates 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 GPA in mathematics. 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 STRUCTURE OF MATHEMATICS III: NUMBER PATTERNS 3
Prereq.: MATH 213. Exploratory approach to number patterns and functions. Topics include prime and composite numbers, perfect numbers, Fibonacci numbers, figurative numbers, Pythagorean triples and sequences. Calculators will be used. Elementary Education certification candidates only. *Fall*.
- ¹MATH 306 STRUCTURE OF MATHEMATICS IV: DEVELOPMENT OF GEOMETRIC IDEAS 3
Prereq.: MATH 213. Exploration of geometric concepts via hands-on activities and computer software. Topics include congruence, similarity, transformations, tessellations, and fractals. Elementary Education certification candidates only. *Spring. [c]*
- 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*.
- 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 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 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. 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 or 305 or permission of instructor. 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 409 MATHEMATICS THROUGH COMPUTERS 3
Prereq: Math 121 or 213. Applications of calculators and computers to promote better understanding of mathematical concepts and algorithms, K-12. Topics include LOGO, BASIC, spreadsheets, graphing calculators, and mathematical software. *Fall. [c] [G]*
- 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 or 305. 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, or 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]*
- ¹MATH 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 315 or 200 or 215, and MATH 110 or 228. Selected topics chosen from the areas of linear programming, decision analysis, and network analysis. *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 400 TOPICS IN MODERN LANGUAGES 3
Prereq.: 226 or equivalent in target language. Literary and language topics taught in the target language. May be repeated with different topics for maximum of 6 credits. *On demand.*
- 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 420 INTERNSHIP IN FOREIGN LANGUAGES 1
Prereq.: Appropriate 226 course or equivalent in target language. Practical field experience using the target language. One credit per eight-week unit. May be repeated to a total of three credits. *On demand.*
- 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 sight singing 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. <i>Fall. Mode 4 or Area D</i>
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. <i>Fall. Mode 4</i>
MUS 177	APPLIED MUSIC	1	Individual instrumental or vocal instruction in performance. <i>Open to non-majors by permission of the instructor. Fee: \$150 per semester*. Mode 4</i>
MUS 178	APPLIED MUSIC-MAJORS	2	Individual instrumental or vocal instruction in performance. <i>Open only to Music majors. Fee: \$200 per semester*.</i>
MUS 215	SIGHT SINGING III	1	Prereq.: MUS 116. Continued development of diatonic and chromatic sight singing skills. Introduction to modulatory materials. <i>Fall.</i>
MUS 216	SIGHT SINGING IV	1	Prereq.: MUS 215. Continued development of diatonic and chromatic sight singing skills. Expanded tonal and atonal materials. <i>Open to Music majors only. Spring.</i>
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. <i>Open only to Music majors. Fall.</i>
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. <i>Open only to Music majors. Spring.</i>
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. <i>Open to Music majors only. Spring.</i>
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. <i>Mode 4</i>
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 Modern, 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. Spring.</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. Spring</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>Open only to Music Majors. Fall.</i>

MUS 362 BRASS CLASS II 1
Prereq.: MUS 222 or equivalent. Methods and materials of class instruction in brass instruments. *Open only to Music majors. Spring.*

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. *Fall.*

MUS 364 JAZZ IMPROVISATION II 3
Prereq.: MUS 222 or 363 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. *Spring.*

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. *Fall.*

MUS 367 CHORAL CONDUCTING 1
Prereq.: MUS 222 or equivalent. Development of skills in choral conducting and score reading. *Open only to Music majors. Fall.*

MUS 368 INSTRUMENTAL CONDUCTING 1
Prereq.: MUS 367. Development of skills in instrumental conducting, baton technique and score reading. *Open only to Music majors. Spring.*

MUS 390 ORCHESTRATION 1
Prereq.: MUS 222. Techniques and principles of orchestration; both instrumental and vocal arranging. *Open only to Music majors. Fall.*

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. *Open only to music majors. Spring.*

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. *Both semesters.*

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. *Mode 4*

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. *Open to Music majors only. Irregular.*

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. *Irregular.*

MUS 431 BEETHOVEN 3
Prereq.: 9 credits in Music or permission of instructor. Historical and analytical study of the composer and selected works. *Irregular.*

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. *Irregular.*

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. *Irregular.*

MUS 435 MUSIC HISTORY III 3
Prereq.: MUS 335. Historical and theoretical study of works by major 20th century composers and their compositional procedures. *Open to Music majors only. Spring.*

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. *Irregular.*

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. *Irregular.*

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. *Open to Music majors only. Irregular.*

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. *Irregular. Mode 4*

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. *Irregular.*

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/Winter session.

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/Winter session.

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 223 ANCIENT PHILOSOPHIES OF DEMOCRACY 3
 Invitation to philosophical conversation and reflection about democracy approached by way of the dialogue around them within the literature of 4th and 5th century Athens, featuring texts by Thucydides, Plato and Aristotle. *Fall. 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 250 INTRODUCTION TO ASIAN PHILOSOPHY 3
 Broad survey of Indian and Chinese philosophical traditions. *Fall. (E) Mode 1*

- 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. *Spring. (O) Mode 1*
- 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. *Irregular. Modes 1 and 7 [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. *Spring. Modes 1 and 3 [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. *Spring.*
- PHIL 376 BUDDHIST PHILOSOPHY 3
One previous philosophy course recommended. The principal variations of realized enlightenment (via 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. *Fall. Mode 1 [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. *Irregular. Mode 1*
- PHIL 401 SEMINAR IN ASIAN PHILOSOPHY 3
Prereq.: six semester hours in either Asian philosophy, Asian religion or Asian history; or permission of instructor. Study of selected topic as announced. *Spring (O). [I] [G] Mode 1*
- PHIL 400 SEMINAR IN PHILOSOPHY 3
Prereq.: PHIL 220 and 330, or permission of instructor. Study of selected topics as announced. *Spring.*
- 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. *Spring.*
- 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. *On request.*
- ## 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. *Summer.*
- 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. *Summer.*
- 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. *Summer.*

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	2	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 173	BASKETBALL	1	
PE 175	TRACK AND FIELD	1	
PE 271	VOLLEYBALL	1	
PE 272	MOVEMENT FUNDAMENTALS	1	
PE 273	TUMBLING AND GYMNASTICS	2	
PE 350	RACQUET SPORTS	2	
PE 374	SOCCER	1	
PE 375	TRAINING FOR FITNESS	2	
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. <i>Open only to Athletic Training students.</i>
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. <i>Spring (E).</i>
PE 300	DEVELOPMENTAL MOVEMENT	3	Application of Laban's Movement Framework to the teaching of elementary physical education. Includes rhythmic activities, folk dance, and developmentally appropriate games. <i>Spring.</i>
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. <i>Open only to Physical Education majors.</i>
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. <i>Open only to Physical Education majors.</i>
PE 314	BASEBALL OFFICIATING	2	Rules and techniques of officiating interscholastic and intercollegiate baseball. The course includes field experience and classroom lecture. <i>Fall.</i>
PE 315	PRACTICUM IN ATHLETIC TRAINING I	3	Prereq.: PE 217, minimum of 200 NATA approved contact hours, one semester of work experience in CCSU's athletic training facility, or permission of instructor. Provides 300 clock hours of supervised experience in first aid, preparing teams for competition, and maintaining the athletic training room. <i>Open only to Athletic Training students.</i>
PE 316	PRACTICUM IN ATHLETIC TRAINING II	3	Prereq.: PE 218, 315, 700 NATA approved contact hours, three semesters of work experience in CCSU's athletic training facility, admission to professional program or permission of instructor. A second 300 clock hour supervised experience in evaluating athletic injuries, establishing treatment plans, rehabilitation programs, maintain 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. <i>Fall.</i>
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. <i>Spring.</i>
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. <i>Fall.</i>
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. <i>Fall.</i>
PE 335	COACHING BASEBALL	2	Techniques of batting, pitching, how to play various positions and strategy of the game. <i>Spring.</i>

PE 357	COACHING SOCCER	1	PE 408	THE CURRICULUM PROCESS IN K-12 PHYSICAL EDUCATION	3
	Tactics and strategies in coaching interscholastic soccer.			Prereq.: admission to the Professional Program. Identification of competency based, goal oriented activities appropriate to K-12 physical education. Emphasis on program development and design, instructional process, program implementation and evaluation. <i>Fall</i>	
PE 361	COACHING TRACK: JUMPING EVENTS	1	PE 409	PSYCHO-SOCIAL ASPECT OF PHYSICAL EDUCATION	3
	Tactics and strategies in coaching interscholastic track.			Prereq.: admission to the Professional Program. Foundation and practical psychological and sociological information for the improvement of physical education in today's society. <i>Spring</i>	
PE 362	COACHING TRACK: RUNNING EVENTS	1	PE 411	ORGANIZATION AND MANAGEMENT OF HEALTH FITNESS PROGRAMS	3
	Tactics and strategies in coaching interscholastic track.			Prereq.: admission to the Professional Program. Management procedures involved in conducting health fitness activities and program implementation, Emphasis on facilities, budgeting, legal liability and risk management. <i>Spring</i> .	
PE 363	COACHING TRACK: WEIGHT EVENTS	1	PE 412	THE APPLICATION OF TORT LAW TO PHYSICAL ACTIVITY	3
	Tactics and strategies in coaching interscholastic track.			Prereq: junior/senior standing. Designed to acquaint physical educators and prospective coaches, athletic trainers, and health fitness personnel with negligence theory in physical activity. <i>Spring - even</i> .	
PE 400	GRADED CARDIAC EXERCISE TESTING	3	PE 420	PERCEPTUAL AND MOTOR DEVELOPMENT	3
	Prereq.: Permission of instructor. Provides an 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. <i>Majors in Physical Education and Health Fitness only</i> .			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. <i>Fall</i> .	
PE 401	IMPLEMENTATION AND EVALUATION OF HEALTH FITNESS PROGRAMS	3	PE 422	MOTOR LEARNING	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. <i>Majors in Physical Education and Health Fitness only. Fall (E)</i> .			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. <i>Spring</i> .	
PE 402	ORGANIZATION AND ADMINISTRATION OF PE	3	PE 440	THERAPEUTIC MODALITIES IN ATHLETIC TRAINING	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.			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. <i>Spring (O)</i> .	
PE 403	METHODS IN PHYSICAL EDUCATION FOR THE AGING	3	PE 443	PRACTICUM IN EXERCISE COUNSELING	3
	An examination of appropriate activities and methods of teaching physical education for the elderly.			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. <i>Majors in Physical Education or Health Fitness Studies only. Fall and Spring</i> .	
PE 404	EXERCISE PHYSIOLOGY	3	PE 444	INTERNSHIP IN HEALTH FITNESS	6
	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. <i>Majors in Physical Education and Health Fitness Studies only. Fall and Spring</i> .			Prereq.: PE 443, admission to program. An eight-week period of time during the senior year will be spent in a corporate fitness or commercial fitness establishment where the student will demonstrate his/her ability to conduct a fitness/exercise program. <i>Majors in Physical Education or Health Fitness Studies only. Fall and Spring</i> .	
PE 405	ELEMENTARY METHODS IN PHYSICAL EDUCATION	2	PE 445	INTERNSHIP IN ATHLETIC TRAINING	6
	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. <i>Majors in Physical Education program (B.S.Ed.) only. Fall and Spring</i> .			Prereq.: PE 315, 316, 317, 440 and admission to the Professional Program, minimum of 1.000 NATA approved contact hours or permission of instructor. Internship under ATC supervision in either a public school, college/university training room, or sports medicine setting.	
PE 406	ADAPTED PHYSICAL EDUCATION	3	PE 490	INDEPENDENT STUDY IN PHYSICAL EDUCATION	1-3
	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 exceptions.			Prereq.: Senior or graduate standing and permission of department chair. Reading and research in approved topics under the guidance of a member of the department. May be repeated for a total of 3 credits.	
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. <i>Spring</i> .				

PHYSICS

- PHYS 111 INTRODUCTION 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, one recitation, 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, one recitation, 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, Bohr model, nuclear structure, radioactivity. *Fall.*
- 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 chair. 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 460 SEMINAR IN PHYSICS 1
Prereq.: At least junior or senior standing or permission of instructor. (Alt: open to junior or senior physics majors in the B.A. & B.S. programs and graduate students.) Through individual readings, discussions and presentations, students will study contemporary topics in various fields of physics. One conference hour per week. May be taken a maximum of two times for credit. *Irregular.*

PHYS 470 QUANTUM MECHANICS I 3
Prereq.: PHYS 425. Limits of classical physics; wave packets and uncertainty; Schrodinger wave equation; eigafunctions and eigervalues; one-dimensional potentials; wavemechanics; operator methods. *Spring.*

PHYS 471 QUANTUM MECHANICS II 3
Prereq.: PHYS 470. Three-dimensional Schrodinger equation; angular momentum; radial equation; hydrogen atom; operator matrices and spin; addition of angular momentum; plus additional topics to be chosen by instructor. *Fall.*

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 discussed. 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 291 SPECIAL TOPICS IN POLITICAL SCIENCE 3
Examination of selected topics in political science. Topics may vary from semester to semester. On demand. *Mode 7*

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 335 AMERICAN POLITICAL THOUGHT 3
American Political thought, with special attention to contemporary discussion of conservatism, and radicalism. *Mode 7. Spring. [E]*

- 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*
- PS 416 MANAGEMENT AND DELIVERY OF GOVERNMENT SERVICES 3
Prereq.: PS 340 or permission of instructor. Exploration and analysis of new ideas and concepts of government service delivery and management, privatization, user fees, joint public/private ventures, contracting out, voucher system, public entrepreneurship, democratic and ethical problems with new approaches. *Fall.*
- PS 420 GOVERNMENT AND POLITICS OF LATIN AMERICA 3
Historical, social, economic, and ideological factors impacting contemporary government and politics in Latin America. *Spring (O). Mode 7. [I]*
- PS 421 GOVERNMENT AND POLITICS OF AFRICA 3
Historical, social, economic, and ideological factors impacting contemporary government and politics in Africa. *Spring (O). Mode 7. [I]*
- PS 430 THE AMERICAN PRESIDENCY 3
Prereq.: PS 104, 110 or permission of instructor. Office of President and place in the political system, colonial antecedents and modern counterparts. Emphasis on the presidency's functional and institutional development, contemporary role in politics and public policy, and interplay between man and office. *Mode 7*
- PS 431 THE LEGISLATIVE PROCESS 3
Prereq.: PS 104, 110 or permission of instructor. Structure, behavior and operation of U.S. Congress. Comparison with state legislatures. Interrelationships with Executive and judicial branches. Problems of popular representation. Analysis of growth and expansion of governmental control through social legislations and administrative rule-making. *Mode 7*
- PS 432 URBAN POLITICS AND GOVERNMENT 3
Selected urban conditions and problems such as housing, the racial crisis, power structure, the resolution of conflict, local ideology, intergovernmental relations, partisan politics, group behavior, forms of government, politics of planning, regionalism, transportation and communication. Field research projects. *Mode 7*
- PS 433 TWENTIETH CENTURY POLITICAL THOUGHT 3
Contemporary approaches to political theory, such as socialism, conservatism, liberalism and group theory. *Mode 7*
- PS 434 GOVERNMENT AND POLITICS OF THE MIDDLE EAST AND NORTH AFRICA 3
Historical background, contemporary setting, political processes and major problems of some of the countries of Middle East and North Africa. *Mode 7 [I]*
- PS 435 RUSSIA AND EASTERN EUROPE 3
Government and politics of Russia and of selected Eastern European countries such as Poland, Hungary, Ukraine and Yugoslavia. *Mode 7 [I]*
- PS 436 PERSONNEL AND HUMAN RESOURCES IN THE PUBLIC SECTOR 3
Structure and political role of the Civil Service, evolution of government employment, current personnel policies, rights and responsibilities of the public servant, formal tasks such as examination, recruitment, position classification, training and evaluation, ethics in public service, and collective bargaining. *Fall. Mode 7*
- PS 438 PUBLIC POLICY AND ADMINISTRATION IN DEVELOPING NATIONS 3
Prereq.: PS 104 or 110, or permission of instructor. Politics and administration of governmental programs and policies in developing nations. Special emphasis on cases in Africa, Asia, and Latin America. *Irregular. Mode 7 [I]*
- PS 445 PUBLIC POLICY ANALYSIS AND EVALUATION 3
Prereq.: Permission of instructor or two courses in political science, geography, economics or sociology; plus completion of, or simultaneous registration in, PS 344, SOC 400 or MATH 125. An investigation in perspectives and methods of measuring public policies.
- PS 446 THE BUDGETARY PROCESS 3
Prereq.: PS 110 and 340. Examination and analysis of budgeting as an administrative and political process, with attention to techniques and reform efforts.

- PS 447 ADMINISTRATIVE LAW 3
Prereq.: PS 110. PS 331 and 340 recommended. The study of administrative agencies and legal boundaries within which they operate. Constitutional law and the Uniform Administrative Procedures Act will be applied to agency rule-making and regulation. Current controversies over the role of administrative agencies.
- PS 448 THE POLITICS OF HUMAN SERVICES 3
A study of the politics and administration of government programs that deal with human problems such as poverty, crime, health, manpower development and housing. *Mode 7*
- PS 480 GOVERNMENT INTERN EXPERIENCE 3
Prereq.: Junior or senior status with 2.50 grade point average or higher. Students who apply and are admitted to this program are assigned to work in State and local government departments and agencies for a minimum of two days a week. To be taken concurrently with PS 481; not open to students who have completed PS 482 and 483.
- PS 481 INTERN SEMINARS AND RESEARCH 3
Prereq.: Junior or senior status with 2.50 grade point average or higher. Open only to students concurrently enrolled in PS 480. Seminars and research projects and papers related to work assignments of PS 480.
- PS 482 GOVERNMENT INTERN EXPERIENCE 6
Prereq.: Junior or senior status; a minimum of 3.00 grade point average unless special departmental discretionary exception is approved by the Dean of Arts and Sciences. Students who apply and are admitted to this program are assigned to work on a full-time basis, five days per week, with the State legislature or administrative department or agencies. Must be taken concurrently with PS 483; cannot be taken by students who have completed PS 480 and 481. No more than 3 credits may be taken by students who have completed PS 482 may be applied toward a Political Science major.
- PS 483 INTERN SEMINARS AND RESEARCH 6
Prereq.: Junior or senior status; a minimal 3.00 grade point average unless special departmental discretionary exception in approved by the Dean of Arts and Sciences. Open only to students concurrently enrolled in PS 482. A series of seminars, assigned readings and completion of a substantial research project related to work assignment of PS 482. No more than 3 credits of PS 483 may be applied toward a Political Science major.
- PS 490 DIRECTED READINGS IN POLITICAL SCIENCE 3 or 6
Prereq.: Permission of instructor. Individual programs of study for students with special abilities or interests in political science. *On demand.*
- PS 491 ADVANCED STUDIES IN POLITICAL SCIENCE 1-6
Prereq.: Permission of instructor. Extensive study of selected problems in political science. *On demand.*
- PS 492 POLICY STUDIES 3
Prereq.: PS 110 and 340. Analysis and evaluation of specific policy issues at the state and national levels of government. Topics will vary from year to year. If topics differ, may be taken more than once. Not for graduate credit. *Irregular.*

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. Underlying mechanisms of behavior and models of memory derived from animal and human research will be emphasized. *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 240 THE PSYCHOLOGY OF POLITICS 3
Examining the process by which political behavior interacts with and influences individual psychological behavior. *Fall. Mode 6*
- 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 ADULT DEVELOPMENT AND AGING 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 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. *Mode 6*
- 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. *Irregular.*
- 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. *Mode 6*
- 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. *Fall.*
- 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. *Fall. Mode 6*
- 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. *Irregular.*
- 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. *Mode 6*
- 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. *On request.*

QUANTITATIVE ANALYSIS

(See Statistics)

- 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 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 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. *Area C*

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 120-244 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 160	RACQUETBALL	1
REC 162	BADMINTON	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
REC 244	FITNESS/WELLNESS VENTURES	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 257 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. *On demand. (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 chair. *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 chair. *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 chair. *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 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 chair. 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 or ANTH 140, SOC 111 and PS 110 or 230. 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. Pre-Social Work majors only. *Fall.*

SW 227 HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT 3
Prereq.: BIO 111, SOC 233 and PSY 235. 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 social political environment. Field work required. Pre-Social Work majors only. *Spring.*

SW 360 GENERALIST SOCIAL WORK PRACTICE WITH INDIVIDUALS AND FAMILIES 3
Prereq.: SW 226, 227, and admission to Social Work major. Study of delivery of direct service to individuals and families interacting within groups and communities; tasks and skills necessary for generalist social workers 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. 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 360 and 361. 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. Recommended SW 450 and SW 451 or SW 452 and SW 453 be taken concurrently. *Fall.*

SW 374 INTRODUCTION TO SOCIAL WORK RESEARCH 3
 Prereq.: STAT 215. Research knowledge and skills essential for beginning social work practice. Theory of social research, hypothesis testing, research design, sampling, data collection techniques and ethical issues germane to social workers. Quantitative and qualitative research and the problem-solving model, associated with a research proposal applicable to social work practice will be developed. *Fall.*

SW 426 SOCIAL WELFARE POLICY AND SERVICES II 3
 Prereq.: SW 360, 361 ECON 200. Uses of policy analysis and planning as intervention strategies in generalist social work practice. Recommended that SW 450 and 451 or SW 452 and 453 be taken concurrently. *Spring.*

SW 433 INDEPENDENT STUDIES IN SOCIAL WORK 3
 Prereq.: Senior standing in the Social Work major and permission of the program director. Student must have a written study proposal approved by the program director prior to registering for this course. Readings and research in selected areas of social work. *On request.*

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 450 FIELD PRACTICUM I 3
 Prereq.: All other requirements for the major except SW 362 and SW 426 (may be taken concurrently with this course); completed field application and permission of field coordinator. Placement in a social work agency in the community for a minimum of 200 hours. Students are engaged in social work roles and activities which help them to develop generalist practice skills and knowledge. Must be taken concurrently with SW 451.

SW 451 FIELD PRACTICUM SEMINAR I 3
 Prereq.: All other requirements for the major except SW 362 and SW 426 (may be taken concurrently with this course); completed field application and permission of coordinator. Shared learning experience among all students placed in a community social work agency to provide an opportunity for information exchange in depth. Case processes and agency analysis are required. Social work philosophies, values and ethics in the social service delivery system are reinforced. Relevant readings, assignments and projects to help students integrate theory and practice. Must be taken concurrently with SW 450.

SW 452 FIELD PRACTICUM II 3
 Prereq.: SW 450 and 451 and permission of field coordinator. Continued placement in a social work agency in the community for a minimum of 200 hours. Students are engaged in social work roles and activities which further prepares them for professional practice and responsibilities. Must be taken concurrently with SW 453.

SW 453 FIELD PRACTICUM SEMINAR II 3
 Prereq.: SW 450 and 451 and permission of field coordinator. Shared learning experience among all students placed in a community social work agency to provide an opportunity for information exchange in depth. Evaluation of practice and organized community outreach in the social service delivery system are reinforced. Relevant readings, assignments and projects to help students integrate theory and practice. Must be taken concurrently with SW 452.

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 SOCIOLOGY OF GENDER 3
 Gender as a biology, social learning, social organization, social structure. The gendered nature of friendships, sexuality, conversation, power, and violence. Interpersonal/institutional sexism as it affects women and men. Issues of inequalities in work, education, politics and health. Women's and men's movements. *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. <i>Spring. (E)</i>			
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. <i>Spring. Mode 6</i>			
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. <i>Fall. (E) Mode 6</i>			
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. <i>Mode 6</i>			
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. <i>Fall. Mode 6</i>			
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. <i>Spring. Mode 6</i>			
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. <i>Fall. Mode 6</i>			
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, Durkeim, Simmel, Weber and selected other classical theorists. <i>Fall.</i>			
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. <i>Spring.</i>			
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. <i>Fall. Mode 7</i>			
SOC 433	INDEPENDENT STUDIES IN SOCIOLOGY	3		
	Prereq.: Senior standing and permission of instructor. Student must present a written study proposal to the department chair at least three weeks prior to registering for this course. Readings and research in selected field of sociology. <i>On request.</i>			
SOC 434	HONORS, DIRECTED RESEARCH	3		
	Prereq.: Honors program and permission of instructor. Directed research in sociology. <i>On demand.</i>			
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. <i>Spring. (E) Mode 6</i>			
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. <i>Spring.</i>			
SOC 475	SEMINARS IN SOCIOLOGY	3		
	An examination of selected topics in sociology. <i>Irregular.</i>			
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. <i>Irregular.</i>			
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. <i>Fall. [c]</i>			
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. <i>Area B [I]</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 chair. <i>Area B [I]</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. <i>Area B [I]</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. <i>Irregular. Area B [I]</i>			
SPAN 120	INTENSIVE ELEMENTARY SPANISH	6		
	Intensive oral-proficiency based Spanish language course designed to bring students to intermediate level production and receptive skills in one semester. Six classroom hours per week plus laboratory assignments. Not open to students with one or more years of high school study of the language. <i>Area B. [I]</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 chair.* Not open to native speakers. *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 chair.* Not open to native speakers. *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 [I]*
- 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 [I]*
- 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. Field experience required.
- 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 Feb. 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 Feb. 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 108, 200, 215 or 315. *Mode 2*
- STAT 108 INTRODUCTION TO BIOSTATISTICS 3
Prereq.: Placement exam or 099. Principles of statistics applied to the analysis of health and biological data. Emphasis on concepts and principles from biostatistics to facilitate critical reading of literature relevant to health data. The development of analytic skills is enhanced by the use of one of the widely available statistical packages and/or graphing calculator. Topics include: graphical presentations, testing, estimation, cross-classification, correlation, life tables and survey analysis. No credit given to students with credit for STAT 104, 200, 215, 315. *Mode 2*
- STAT 200 BUSINESS STATISTICS I 3
Prereq.: MATH 125. Application of statistical methods used for a description of analysis of business problems. The development of analytic skills is enhanced by use of one of the widely available statistical packages and a graphing calculator. Topics include: frequency distributions, graphical presentations, measures of relative position, measures of central tendency and variability, probability distributions including binomial and normal, confidence intervals and hypothesis testing. No credit given to students with credit for STAT 104, 108, 215, 315.
- STAT 201 BUSINESS STATISTICS II 3
Prereq.: STAT 200 or equivalent (C or higher). Application of statistical methods used for a description and analysis of business problems. The development of analytical skills is enhanced by use of one of the widely available statistical packages. Topics include: Continuation of hypothesis testing, multiple regression and correlation analysis, residual analysis, variable selection techniques, analysis of variance and design of experiments, goodness of fit and tests of independence. No credit given to students with credit for STAT 216, 416, 453.
- 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, 108, 200 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 400 STATISTICAL QUALITY CONTROL 3
Prereq.: STAT 216 or STAT 201 or IT 464 or permission of instructor. Statistical introduction to quality control. Topics include statistical quality, construction and analysis of control charts for variables and attributes, capability analysis, reliability and acceptance sampling.

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 440 BIOSTATISTICAL METHODS 3
Prereq.: Stat 216 or 201, or 453 with permission of instructor or STAT 416. Statistical methods applied to the analysis of health and biological data with emphasis on multivariate methods. Computer packages assist in the design and interpretation of models fitted to health data. *Spring. (O)*

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 108 or 200 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 201 or 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 201 or 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 201 or 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 470 APPLIED MULTIVARIATE ANALYSIS 3
Prereq.: Stat 216 or 201 or 453 with permission of instructor, or STAT 416. Introduction to analysis of multivariate data with examples from economics, education, psychology and health care. Topics include: multivariate normal distribution, Hotelling's T², multivariate regression, analysis of variance, discriminant analysis, factor analysis and cluster analysis. Computer packages assist in the design and interpretation of multivariate data. *Spring. (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 3
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 3
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 3
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	TC 324	FLUID POWER SYSTEMS	3
<p>A study of the electrical nature of matter, its conduction and magnetic properties. Focus on the behavior of electricity as a phenomenon. <i>Area C</i></p>			<p>A study of the design and fabrication, diagnosis and repair of fluid power systems, including hydraulics, pneumatics and fluidics.</p>		
TC 214	MECHANICAL ENERGY	3	TC 333	DATA ACQUISITION AND CONTROL	3
<p>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. <i>Area C</i></p>			<p>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. <i>Spring. [c] Area C</i></p>		
TC 215	MATERIALS AND PROCESSING	3	TC 334	MECHANISMS FOR AUTOMATION	3
<p>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. <i>Fall. Area C</i></p>			<p>A study of the design and fabrication, diagnosis and repair of mechanical power systems, including mechanical transmission and control components. <i>Fall.</i></p>		
TC 216	MATERIAL PROCESSING II (METALLICS)	3	TC 342	POROUS PRINTING AND POST-PRESS OPERATIONS	3
<p>Comprehensive study of and experiences with those materials which possess metallic characteristics and manufacturing processes. <i>Area C</i></p>			<p>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. <i>Area C</i></p>		
TC 223	ELECTRICAL CIRCUITS: DC	3	TC 351	ESTIMATING FOR CONSTRUCTION	3
<p>Prereq.: Math placement equivalent to MATH 101 or higher. DC electrical circuits with emphasis on analysis, modeling and troubleshooting. <i>Fall. Area C</i></p>			<p>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.</p>		
TC 233	ELECTRICAL CIRCUITS: AC	3	TC 352	GRAPHIC DESIGN AND TYPOGRAPHY	3
<p>Prereq.: TC 223, MATH 115 and PHYS 111. AC electrical circuits with emphasis on analysis, modeling and troubleshooting. <i>Spring. Area C</i></p>			<p>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. <i>[c] Spring. Area C</i></p>		
TC 255	MATERIALS OF CONSTRUCTION	3	TC 353	CONSTRUCTION SURVEYING	3
<p>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. <i>Area C</i></p>			<p>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.</p>		
TC 261	INTRODUCTION TO GRAPHIC DESIGN AND COLOR	3	TC 355	CONSTRUCTION PLANNING	3
<p>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. <i>[c]</i></p>			<p>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.</p>		
TC 303	ELECTRO-MECHANICAL CONVERTERS	3	TC 371	PLASTICS PROCESSING TECHNIQUES	3
<p>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. <i>Fall. Area C</i></p>			<p>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. <i>[c] Area C</i></p>		
TC 313	ELECTRICAL POWER SYSTEMS	3	TC 405	APPLIED TECHNICAL TOPICS	1-3
<p>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. <i>Spring. Area C</i></p>			<p>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></p>		
TC 316	METALS MACHINING	3	TC 416	PRINCIPLES OF NUMERICAL CONTROL	3
<p>Prereq.: TC 216 or permission of instructor. Study of and experiences in techniques of machining, precision measurement and heat treatment of metallic materials. <i>[c]</i></p>			<p>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. <i>[c]</i></p>		
TC 321	COMPUTER-AIDED DRAFTING	3	TC 433	DIGITAL CIRCUITS	3
<p>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. <i>[c]</i></p>			<p>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></p>		
TC 323	ANALOG CIRCUITS	3			
<p>Prereq.: TC 233 or permission of instructor. Analog circuits and their application. Includes the examination of power supplies, amplifiers and oscillators. <i>Fall. [c] Area C</i></p>					

- TC 442 LITHOGRAPHY 3
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] Area C
- TC 443 ELECTRONIC COMMUNICATION 3
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. Spring.
- TC 445 CONSTRUCTION INDUSTRIES 3
Prereq.: TC 215. Comprehensive study of carpentry and related construction industries. Emphasis toward gaining modern concept of wood technology. Spring.
- TC 446 TOOL AND DIE FUNDAMENTALS 3
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 453 MICROPROCESSORS 3
Prereq.: TC 433. A study of microprocessor operation, programming, interfacing and application. Not for graduate credit. Fall.
- TC 455 CONSTRUCTION PROJECT MANAGEMENT 3
Prereq.: TC 355. 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 462 ADVANCED GRAPHIC ARTS TECHNIQUES 3
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] Area C
- TC 463 PROGRAMMABLE LOGIC CONTROLLERS 3
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. Fall. [c] Area C
- TC 472 INTRODUCTORY AND PUBLICATIONS PHOTOGRAPHY 3
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. Summer. Area C

TECHNOLOGY EDUCATION

- TE 110 TECHNOLOGICAL SYSTEMS 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. Fall. Area C
- TE 199 ORIENTATION TO TECHNOLOGY EDUCATION 1
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. Spring.
- TE 399 PROFESSIONAL STRATEGIES OF TECHNOLOGY EDUCATION TEACHING 2
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. Fall.
- 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 412 COMPUTER-AIDED PUBLISHING 3
Presentation and application of the basic concepts of electronic publishing. Instruction and laboratory activities will focus on software usage, applying accepted design techniques and producing appropriate materials for classroom implementation. Irregular.
- 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 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, front-of-house management or performance. 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 two 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. *Spring. 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 211 RENDERING AND DRAWING FOR THE STAGE 2
 Prereq.: TH 111 and 121. A studio course covering the various medium for drawing and rendering stage and costume designs. The emphasis will be in developing student skills in drawing and rendering with watercolor, gouache, pen and ink. *Irregular.*

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. *Spring. (O) Mode 4*

TH 213 SCENE PAINTING I 2
 Laboratory/studio course in the techniques of painting scenery for the stage. Meets two hours twice each week. *Irregular.*

TH 214 SCENE PAINTING II 2
 Continuation of Scene Painting I. Meets for two hours twice each week. *Irregular. (O) Mode 4*

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. *Spring. (E) Mode 4*

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. *Spring. (E) Mode 4*

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 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 246 ACTING II 3
 Prereq.: TH 145. Emphasis on basic techniques of acting; introduction to scene study and characterization. Two lectures and one two-hour laboratory per week. *Fall.*

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 253 SCRIPT ANALYSIS FOR THE THEATRE 3
 Reading and analysis of plays from various periods and countries. Focuses on text analysis from viewpoint of theatre artists: director, actor, designer. *Fall.*

- TH 275 AMERICAN THEATRE TODAY 3
A survey of theatre in America, with special focus on current developments. Topics include: organizational structure, social and cultural objectives, economics issues, artistic trends, theatre education, multiculturalism and new plays. May include field trips, ticket charge required, guest speakers and research on selected subject. *Spring. (E)*
- 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. *Fall. (E)*
- 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. *Spring. (O)*
- 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. *Fall. (E)*
- 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 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. *Spring. (O)*
- TH 336 STAGE DIALECTS 3
A survey of dialects for stage use with mastery of a select few. Dialect drills, practice and performance. *Spring. (E)*
- 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 339 should be taken concurrently. *Fall. Mode 4*
- 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 347 ACTING III 3
Prereq.: TH 338, 246 or prior permission of instructor. Performance considerations in scene study and character development, with emphasis on contemporary plays. Two lectures and one two-hour lab per week. *Spring. (E)*
- TH 352 DIRECTING FOR THE STAGE 3
Prereq.: TH 253. Principles of stage directing and practice. Emphasis on modern methods of directing and the use of its main elements such as space, time, sound, image and the actor. *Spring (O)*
- TH 373 THEATRE SURVEY I 3
Theatre from 18th century to present day, including physical theatre, audiences, acting style and other elements of production. Representative plays from standpoint of performance. *Fall.*
- TH 374 THEATRE SURVEY II 3
Theatre from Greeks to 18th century. *Spring. (E)*
- 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. *Fall. (O)*
- 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. *Irregular.*
- TH 465 CREATIVE DRAMATICS FOR CHILDREN 3
Trains teachers to develop 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 480 PROJECTS: DANCE 1-3
Prereq.: permission of instructor. Individual projects in choreography, research or production under the guidance of Dance/Theatre staff. *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 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
Prereq.: TH 352 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 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 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: 832-1807). *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 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, 832-1807, prior to registration.) *Fall.*

VTE 491 SUPERVISION OF VOCATIONAL AND TECHNICAL EDUCATION 3

Prereq.: Teaching experience. Roles and functions of supervisors of vocational and technical education on the local and state level. *Fall*

VTE 492 ORGANIZATIONAL AND ADMINISTRATION OF VOCATIONAL AND TECHNICAL EDUCATION 3

Prereq.: Teaching certificate and teaching experience. Organizational patterns, administrative practices and legal requirements of federally supported programs in vocational and technical education on the local and state level. *Spring*

WORD PROCESSING

WP 190 KEYBOARDING 3

Development of basic keyboarding skills and related business applications. *Irregular. [c] Area C*

WP 204 INTRODUCTION TO WORD PROCESSING 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*

FACULTY, ADMINISTRATIVE STAFF, LIBRARIANS

(Date of appointment to Central Connecticut State University in parenthesis)

- 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; *Professor of Computer Science (1989)*.
- FAROUGH ABED**, Ed. D., Indiana University; *Associate Professor of Educational Leadership (1993)*.
- MARK E. ADAMS**, M.S., Idaho State University; *Head Men's Basketball Coach (1991)*.
- JEAN ALICANDRO**, B.A., Central Connecticut State University; *Assistant Director, Student Center (1984)*.
- PAUL L. ALTIERI**, Ph.D., Boston College; *Professor of Economics (1975)*.
- GAVRO ALTMAN**, Ph.D., University of Belgrade; *Professor of Political Science (1992)*.
- GABRIEL D. ALUNGBE**, Ph.D., University of Florida; *Assistant Professor of Engineering Technology (1991)*.
- MARIA ALVAREZ**, B.A., Central Connecticut State University; *Degree Auditor, Office of the Registrar (1983)*.
- 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 and Earth Sciences (1980)*.
- HELEN APTHORP**, Ph.D., University of Connecticut; *Assistant Professor of Special Education (1992)*.
- JAMES V. ARENA**, Ph.D., University of Connecticut; *Associate Professor of Chemistry (1989)*.
- MARCO A. ARENAS**, Ph.D., University of Connecticut; *Professor of Modern Languages (1965)*.
- RICHARD I. ARENDS**, Ph.D., University of Oregon; *Dean, School of Education and Professional Studies (1991)*.
- DOMINGO ARIAS**, M.A., Catholic University of Chile; *Assistant Director, Career Services and Cooperative Education (1991)*.
- ROBERT F. ARIOSTO**, Ed.D., Teachers College-Columbia University; *Vice President of Student Affairs and Dean of Students (1986)*.
- 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; *Assistant to the Dean and 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)*.
- JOHN BARKER**, B.S., Central Connecticut State University; *Assistant Director of Information Services (1992)*.
- ANDREW W. BARON**, Ed.D., University of Maryland; *Associate 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; *Professor of Physics and Earth Sciences (1990)*.
- EUGENE BATEN**, Ed.D., Harvard University; *Associate Professor of Management and Organization (1988)*.
- ROWLAND BAUGHMAN**, D.B.A., George Washington University; *Professor of Management and Organization (1983)*.
- 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; *Professor of History (1990)*.
- FELTON BEST**, Ph.D., The Ohio State University; *Associate Professor of History (1991)*.
- KAREN C. BEYARD**, Ph.D., Arizona State University; *Vice President for Academic Affairs (1986)*.
- CHARLOTTE BISSON**, M.S., Central Connecticut State University; *Director of Admissions and Records (1979)*.
- STANISLAUS BLEJWAS**, Ph.D., Columbia University; *CSU Professor of History (1974)*.
- DAVID BLITZ**, Ph.D., McGill University; *Associate Professor of Philosophy (1989)*.
- WILLIAM W. BOELKE**, Ph.D., University of Connecticut; *Associate Professor of Mathematics (1964)*.
- RICHARD L. BONACCORSO**, Ph.D., University of Connecticut; *Professor of English (1975)*.
- LYNN BONESIO**, B.A. Mount Holyoke College; *Associate Registrar (1990)*.
- FRED BONVICINI**, M.S., Central Connecticut State University; *Assistant Director of Residence Life (1980)*.
- MOLLIE H. BORNSTEIN**, M.S., Central Connecticut State University; *Professor of Art (1972)*.
- MOLLY BORST**, M.S., Central Connecticut State University; *Admissions Representative (1995)*.
- CONSTANCE C. BOSTON**, M.S.W., University of Connecticut; *Director, Office of Prevention and Counseling (1987)*.
- LAURA BOWMAN**, Ph.D., Kent State University; *Associate Professor of Psychology (1989)*.
- RITA BRANN**, B.A., Central Connecticut State University; *Assistant to the Dean of Enrollment Services (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)*.
- CASSANDRA BROADUS-GARCIA**, M.A., University of North Texas; *Assistant Professor of Art (1994)*.
- RICHARD BRODY**, Ph.D., Arizona State University; *Associate Professor of Accounting (1993)*.
- H. HAINES BROWN, III**, Ph.D., Michigan State University; *Associate Professor of History (1968)*.
- WALTON BROWN**, Ph.D., University of Michigan; *Associate Professor of Political Science and President of the Faculty Senate (1984)*.
- PETER A. BUDWITZ**, C.P.A., M.S., Bucknell University; *Associate Professor of Accounting (1971)*.
- CHRISTINE P. BUKOWIEC**, *Director of Business Services (1964)*.
- WILLIAM BUMPUS**, J.D., Yale University; *Associate to the Dean, School of Business (1993)*.
- THOMAS BURKHOLDER**, Ph.D., University of Virginia; *Assistant Professor of Chemistry (1992)*.
- 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)*.
- SUSAN BUTLER**, M.S.Ed., University of Massachusetts; *Associate Director, Student Activities and Leadership Development (1985)*.
- JAMES BUXTON**, M.F.A., University of Pennsylvania; *Assistant Professor of Art (1991)*.
- HOLLY CAIRNS**, M.A., Edinboro University of Pennsylvania; *Assistant to the Director of Residence Life, Residence Hall Director (1993)*.

- GLORIA CALIENDO**, Ph.D., University of Connecticut; *Assistant Professor of Modern Languages (1991).*
- THOMAS J. CALLERY, JR.**, M.F.A., University of Oregon; *Associate Professor of Theatre (1983).*
- JOAN M. CALVERT**, M.S., Rensselaer Polytechnic Institute; *Assistant Professor of Computer Science (1982).*
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- DOUGLAS CARTER**, Ph.D., University of Illinois; *Assistant Professor of Biological Sciences (1991).*
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- GEORGE A. CLARKE**, Ph.D., Pennsylvania State University; *Dean, School of Arts and Sciences (1984).*
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- PENELOPE N. COE**, Ph.D., Brandeis University; *Associate Professor of Mathematics (1966).*
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- WAYNE COOK**, Ph.D., Boston University; *Professor of English (1967).*
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- CHARLES W. DIMMICK**, Ph.D., Tulane University; *Professor of Physics and Earth Sciences (1972).*
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 David J. Balducci, Quality Craftworker Carpenter
 Paul J. Borawski, Quality Craftworker Carpenter
 James W. Boyle, Skilled Maintainer
 Charles J. Bugnacki, Maintenance Supervisor General
 James A. Cararini, Quality Craftworker Electrician
 Gary L. Catucci, Quality Craftworker Electrician
 Norman A. Charbonneau, Maintenance Supervisor Electrician
 Steven M. Chester, Quality Craftworker Mason
 Roland J. Collin, Maintenance Supervisor Carpenter
 Valentine J. Crescentini, Jr., Quality Craftworker Carpenter
 Gary A. Cusson, Quality Craftworker Plumber
 Joseph H. Deloy, Quality Craftworker Carpenter
 James M. Donnelly, Quality Craftworker Electrician
 Youal Eichouzadeh, Skilled Maintainer
 Jackson Fort, Quality Craftworker Carpenter
 Ernest A. Frick, Jr., Quality Craftworker HVAC
 Linda M. Hale, Quality Craftworker Mason
 Jeffrey L. Kaczynski, Maintenance Supervisor Electrician
 Richard K. Knowles, Quality Craftworker Carpenter
 Joseph F. Kulak, Maintenance Supervisor Plumber
 Paul M. Marsan, Quality Craftworker Electrician
 Willie J. Mitchell, Quality Craftworker Painter
 Harry R. Nelson, Quality Craftworker Mechanic
 Salvador Ortiz, Maintainer
 Jose M. Ortiz, Skilled Maintainer
 Donald J. Ouellette, Quality Craftworker Locksmith
 Neal J. Palmese, Quality Craftworker Plumber
 Louis J. Pandolfo, Quality Craftworker Locksmith
 Charles W. Roberts, Quality Craftworker Electrician
 David Sanko, Quality Craftworker Locksmith
 Frederick J. Ward, Quality Craftworker Plumber
 Edward J. Wojas, Quality Craftworker Plumber
 Albert H. Wollman, Quality Craftworker Carpenter

Grounds

David P. Wirth, Maintenance Supervisor Grounds
 Anthony S. Bleau, Maintainer
 Damian E. Cordero, Skilled Maintainer
 David M. MacKenzie, Maintainer
 Jeffrey Parsons, Skilled Maintainer
 Dean L. Winslow, Maintainer

Housekeeping

Ann M. Albert, Custodian
 Rheal J. Albert, Custodian
 Maria D. Alverez, Custodian
 Shemiran M. Baba, Custodian
 Allen L. Bishop, Lead Custodian
 Deborah Bleau, Custodian
 Robert D. Bleau, Custodian
 Rena Boston-Surratt, Custodian
 Steven Brochu, Custodian

Hank Bryant, Custodian
 Silvano Carrillo, Custodian
 Teresa Czyzewska, Custodian
 Felix DeJesus, Custodian
 Felix C. DeJesus Jr., Lead Custodian
 Teresa DeJesus, Custodian
 Hayg Der Aprahamian, Custodian
 Thomas Dubowsky, Jr., Custodian
 Angel L. Guisao, Custodian
 Rosa M. Guisao, Custodian
 Roy L. Johnson, Supervising Custodian
 Richard Lamarre, Custodian
 Raymond J. Lewonczyk, Lead Custodian
 Elisabetta Liburdi, Custodian
 Sophie W. MacKenzie, Lead Custodian
 Joseph F. Mangene, Maintainer
 Paolino Mangiafico, Lead Custodian
 Peter W. Mangiafico, Lead Custodian
 William M. Marzi, Custodian
 Jozef A. Mazurek, Lead Custodian
 Francis M. Mazza, Custodian
 Luis Medina, Custodian
 Gerald W. Michaud, Custodian
 Preston W. Miller, Custodian
 Tommie Newton, Supervising Custodian
 Miriam Oliveras, Custodian
 Robert Pasquarell, Lead Custodian
 Clovis H. Pottinger, Custodian
 John S. Prescott, Custodian
 Candido Rivera, Custodian
 Clinton G. Roberts, Custodian
 Nelson Rodriguez, Custodian
 Frances M. Rose, Custodian
 Waldo Santos, Custodian
 Frederick L. Savage, Lead Custodian
 J. D. Surratt, Supervising Custodian
 Robert T. Tajmajer, Building Superintendent
 Daisy A. Tarlton, Custodian
 Justo C. Torres, Custodian
 Joseph A. Truglio, Building Superintendent
 Terry A. Wilson, Custodian
 John R. Zielinski, Supervising Custodian

Powerhouse

Isadore Bezio, Boiler Tender
 Kevin M. Butler, Stationary Engineer
 Kevin J. DeSimone, Stationary Engineer
 Bruce R. Earl, Boiler Tender
 Rob J. Gagne, Supervising Stationary Engineer
 William Hurley, Boiler Tender
 William F. LaBier, Stationary Engineer
 Ronald J. McClellan, Stationary Engineer
 Mark J. Palmese, Sr., Stationary Engineer
 Jeffrey R. Sacharko, Boiler Tender

Receiving & Stores

Steven J. Berry, Storekeeper
 Thomas J. Cardone, Skilled Maintainer
 Brian D. Chagnon, Storekeeper
 John H. Dabrowski, Material Storage Manager
 Lorraine S. Gallo, Storekeeper
 Marcellino A. Hill, Skilled Maintainer
 Richard A. Larose, Material Storage Supervisor
 David Thibodeau, Driver/Equipment Operator
 Mark Varhol, Maintainer

STUDENT AFFAIRS

THE VICE PRESIDENT AND DEAN OF STUDENTS Davidson

Robert F. Ariosto, Vice President and Dean of Students
 Karen A. Hansen, Associate Dean
 James F. Jost, Associate Dean
 David A. Ross, Associate Dean
 Michael B. Racz, Judicial Coordinator
 Joyce E. Gray, Administrative Assistant to the Vice President
 Carol Kelpinski, Support Staff

Health Services

Marcus White Annex

Dr. Myra Rosenstein, Director
 Patricia B. Zapatka, Staff Nurse
 Debra Jepson, Staff Nurse
 Maryann Bazzano-Kehrein, Support Staff

Prevention and Counseling

Willard

Constance Boston, Director
 Michael S. Terezakis, Associate Counselor
 Karen M. Engwall, Assistant Counselor
 Leona P. Dinielli-Buckowski, Support Staff

Residence Life

Barrows

Jane M. Higgins, Director
 Nina Cicchetti, Associate Director
 Fred Bonvicini, Area Coordinator
 Holly Cairns, Residence Hall Director
 Jacqueline S. Cobbina, Residence Hall Director
 Andrea DePizzol, Residence Hall Director
 Kim London, Residence Hall Director
 Kevin C. Oliva, Residence Hall Director
 Katherine Poirier, Residence Hall Director
 Susan M. Redman, Support Staff

Student Center

Student Center

Duane A. Orloske, Director
 Wayne R. Mamed, Associate Director
 Jean S. Alicandro, Assistant Director, Student Personnel
 Marcia N. Gallo, Support Staff
 Brenda T. Madore, Support Staff
 Patricia I. Valencia, Support Staff
 Russell A. Winslow, Support Staff
 Maureen D. Zukowski, Support Staff

Special Events

To be named, Assistant Director, Meetings, Planning, Events
 Scott M. McKenna, Assistant Director, Technical Operations

Student Activites/

Leadership Development

Student Center

Robert Schneeweiss, Director
 Susan Sweeney Butler, Associate Director
 Judy A. Kawamoto, Assistant Director
 Patricia W. Anderson, Support Staff

Student Development Center

Advising Center

Willard

Francis E. Keefe, Interim Director
 Elizabeth H. Hicks, Associate Director
 Ramon L. Hernandez, Assistant Director
 Montez Johnson, Assistant Director
 Nancy I. Arroyo-Sandlowski, Support Staff
 Ann P. Maltais, Support Staff

Career Services and Cooperative Education**Willard**

Giles A. Packer, Director
 Patricia M. Havel, Associate Director
 Domingo A. Arias, Assistant Director
 Sarah Cobrain, Assistant Director
 Kimberley A. Dumouchel, Assistant Director
 Kenneth J. Poppe, Career Services Placement and Employer
 Relations Coordinator
 Thomas Rodden, Assistant Director
 Joseph A. Zeoli, Assistant Director
 Kathy Dubay, Support Staff
 Linda M. Vinci, Support Staff

Educational Support Services**Memorial Hall SW Quad**

To be named., Director
 Margaret M. Leake, Associate Director
 Janice M. Reska, Assistant Director
 Janis Petrillo, CONNCAP Site Coordinator
 Awilda Reasco, CONNCAP Site Coordinator
 Karen D. Perezi, Support Staff

Special Student Services**Willard**

George R. Tenney, Director and Counselor III

Women's Center**Willard**

Doris Honig-Guenter, Director

UNIVERSITY AFFAIRS**OFFICE OF THE VICE PRESIDENT****Davidson**

Richard L. Judd, Vice President for University Affairs
 Cornelius O'Leary, Associate Vice President for Community and
 Regional Development

Alumni Affairs**Barrows Penthouse**

Cynthia B. Cayer, Director of Alumni Affairs
 Catherine H. Jost, Assistant Director of Alumni Affairs
 Janice A. Ahearn, Support Staff

Development

Nicholas J. Pettinico, Assistant to the Vice President and
 Director of Development
 To be named, Assistant Director for Athletic Development
 Dorothy E. Finn, Assistant Director for Annual Giving
 Peter T. Vieira, Special Associate for Corporate and Foundation Relations
 K. Elaine Rice, Support Staff

Office of University Relations**Davidson 101**

Peter J. Kilduff, Director
 Geraldine R. Radacsi, Associate Director
 Laura A. Keezing, Assistant Director
 Evelyn A. Parker, Support Staff

INTERCOLLEGIATE ATHLETICS**OFFICE OF THE DIRECTOR****Kaiser**

Charles Jones, Jr., Director
 Lowell D. Lukas, Associate Director, Head Golf Coach
 Kenneth A. DeStefanis, Assistant Director, Wrestling Coach
 Michael Ansarra, Assistant Director, Compliance
 Brent Rutkowski, Assistant Director, Sports Information
 Lisa Meyers, Fiscal Administration Officer
 Karen S. Goulet, Administrative Assistant
 Sharon L. Hornik, Administrative Assistant

Coaches

Mark E. Adams, Basketball Head Coach
 Salvatore P. Cintorino, Head Football Coach
 Shaun Green, Head Soccer Coach
 John J. Kelleher, Men's Cross Country and Track Head Coach
 Glenn Freed, Women's Volleyball Head Coach
 George Kaweck, Head Women's Cross Country-Track Coach
 Ronald Pringle, Head Softball Coach
 George Redman, Head Baseball Coach
 Brenda A. Reilly, Women's Basketball Head Coach
 Allen Dodson, 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
 Youal Eichouzadeh, Custodian

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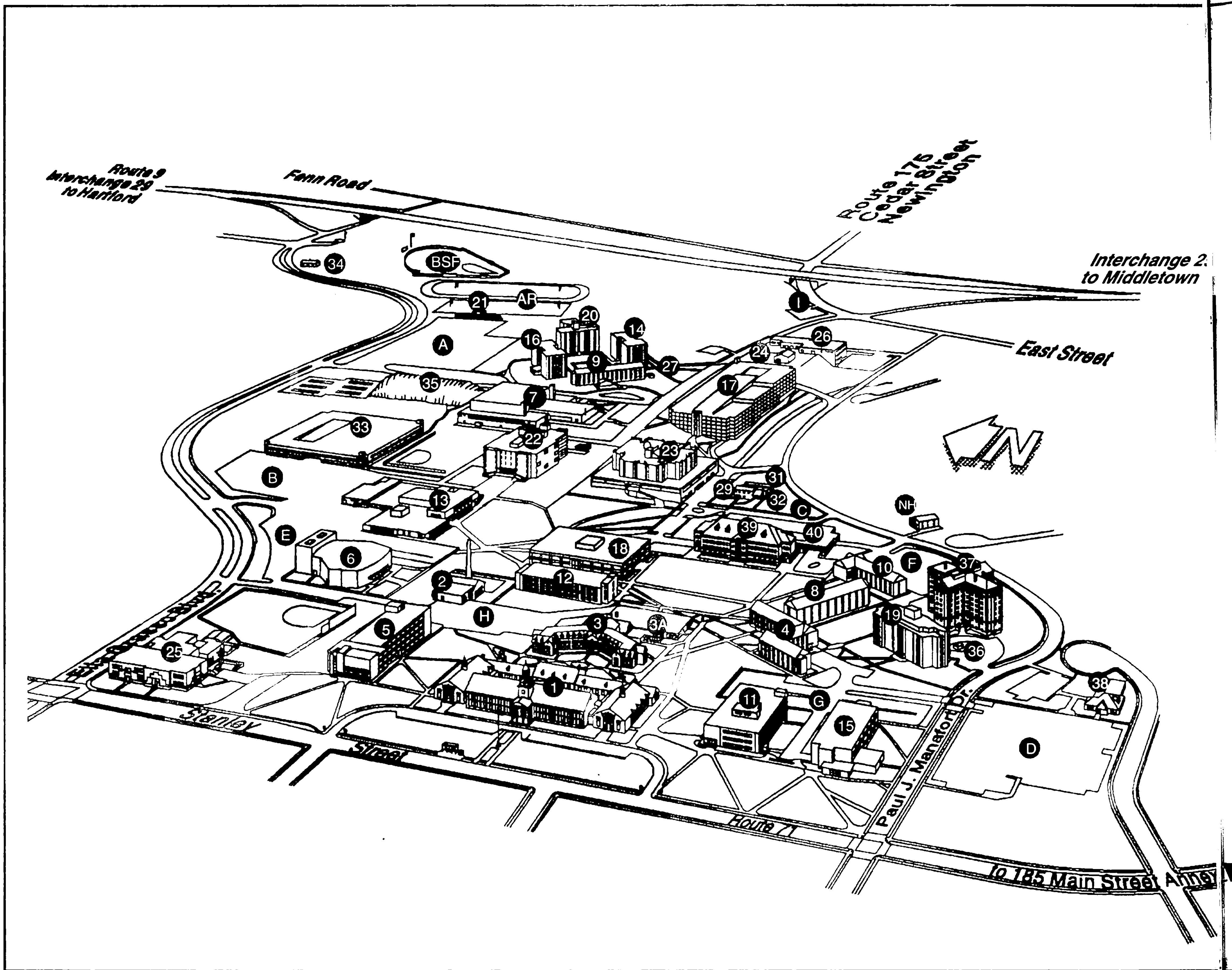
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- 1 Lawrence J. Davidson Hall (LD)
- 3 Marcus White Hall (MW)
- 3A Marcus White Hall Annex
- 5 Henry Barnard Hall (HB)
- 6 Herbert D. Welte Hall (HW)
- 11 Emma Hart Willard Hall (EW)
- 12 Maria Sanford Hall (MS)
- 13 Student Center (SC)
- 15 Frank J. DiLoreto Hall (FD)
- 18 Memorial Hall
- 22 Elihu Burritt Library (EB)
- 23 Nicolaus Copernicus Hall (NC)
- 25 James J. Maloney Hall (FA)
- 29 Campus Police Station
- 31 Guest House (future construction)
- 32 Police Station Annex
- 38 Charter Oak College (future construction)
- 39 Office and Classroom Building (future construction)
- NH Newman House

ATHLETIC AND RECREATIONAL FACILITIES

- 7 Harrison J. Kaiser Hall (HK)
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- AR Arute Field
- BSF Balf-Savin Fields

RESIDENCE HALLS

- 4 Clarence Carroll Hall
- 8 Catherine Beecher Hall
- 9 Samuel J. May Hall
- 10 Seth North Hall
- 14 Robert E. Sheridan Hall
- 16 Thomas A. Gallaudet Hall
- 19 Mildred Barrows Hall
- 20 Robert Vance Hall
- 37 F. Don James Hall (scheduled for completion in Fall 1995)

MAINTENANCE BUILDINGS

- 2 Power House
- 24 Maintenance Support Butler Building
- 26 East Hall Facilities Management Building
- 27 North Pump House
- 34 Grounds Building
- 36 South Pump House

PARKING GARAGES

- 17 East Parking Garage
- 33 North Parking Garage
- 40 New Classroom Building Garage (future construction)

STUDENT PARKING

- A Kaiser Lot
- B Burritt Lot
- C Seth North Lot
- 17 East Parking Garage
- 33 North Parking Garage
- 40 New Classroom Building Garage (future construction)

STUDENT PARKING AFTER 5 P.M.

- D Manafort Drive Lot
- E Welte Lot

FACULTY/STAFF PARKING

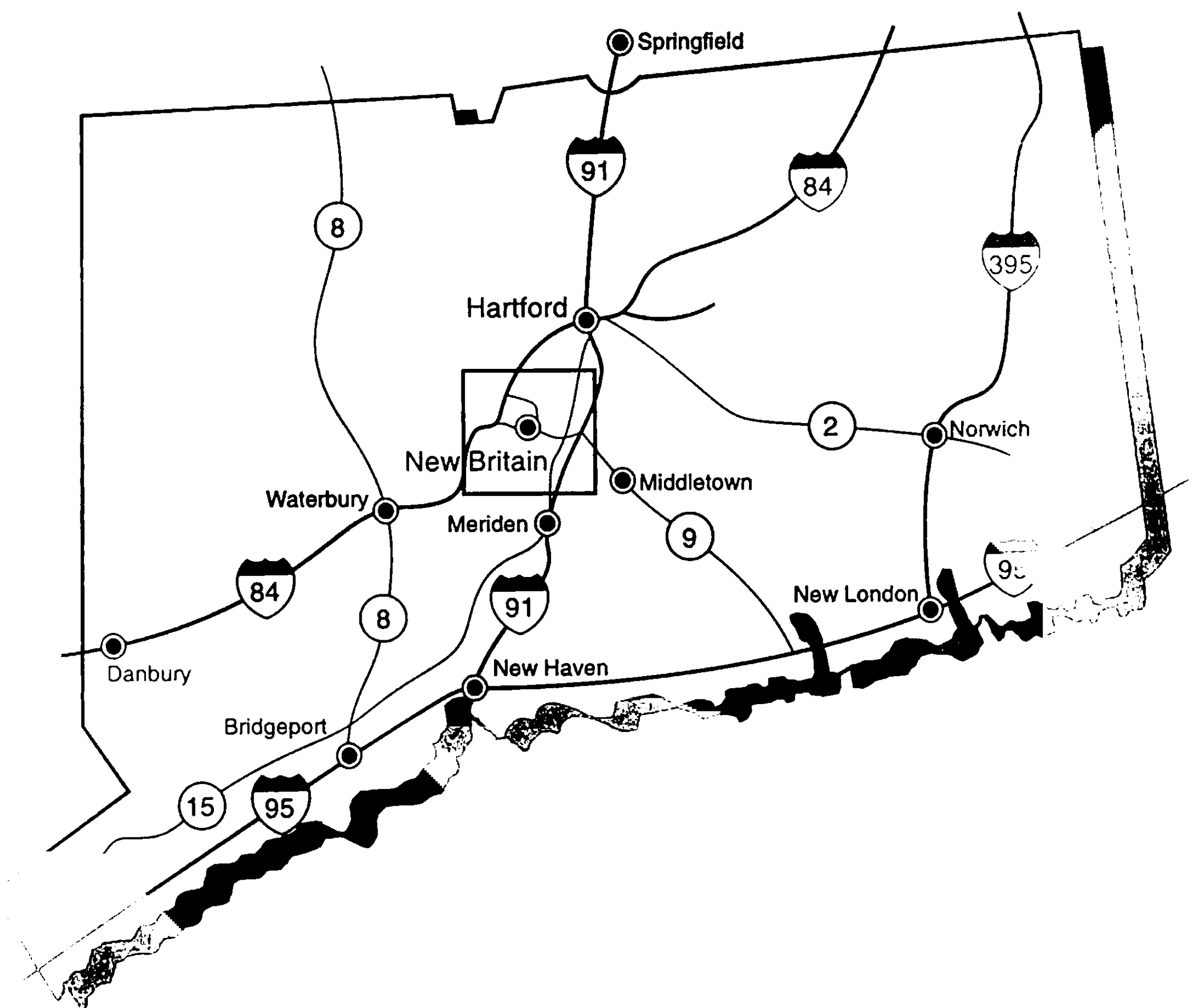
- D Manafort Drive Lot
- E Welte Lot
- F F. Don James Lot (scheduled for Fall 1995 completion)
- G Willard/DiLoreto Lot
- H Henry Barnard Lot

DIRECTIONS TO CENTRAL CONNECTICUT STATE UNIVERSITY

FROM THE NORTH

Take I-91 South to I-84 West to Exit 39A, to Rt. 9 South. Take Exit 29 off Rt. 9 South to Ella Grasso Boulevard and take a right turn to the University.

Alternate Route: Take I-91 South to I-84 West to Exit 40 (Corbins Corner), take a left turn at the end of the exit ramp, and a right turn at the next traffic light onto Rt. 71 South, 3 miles to the University.

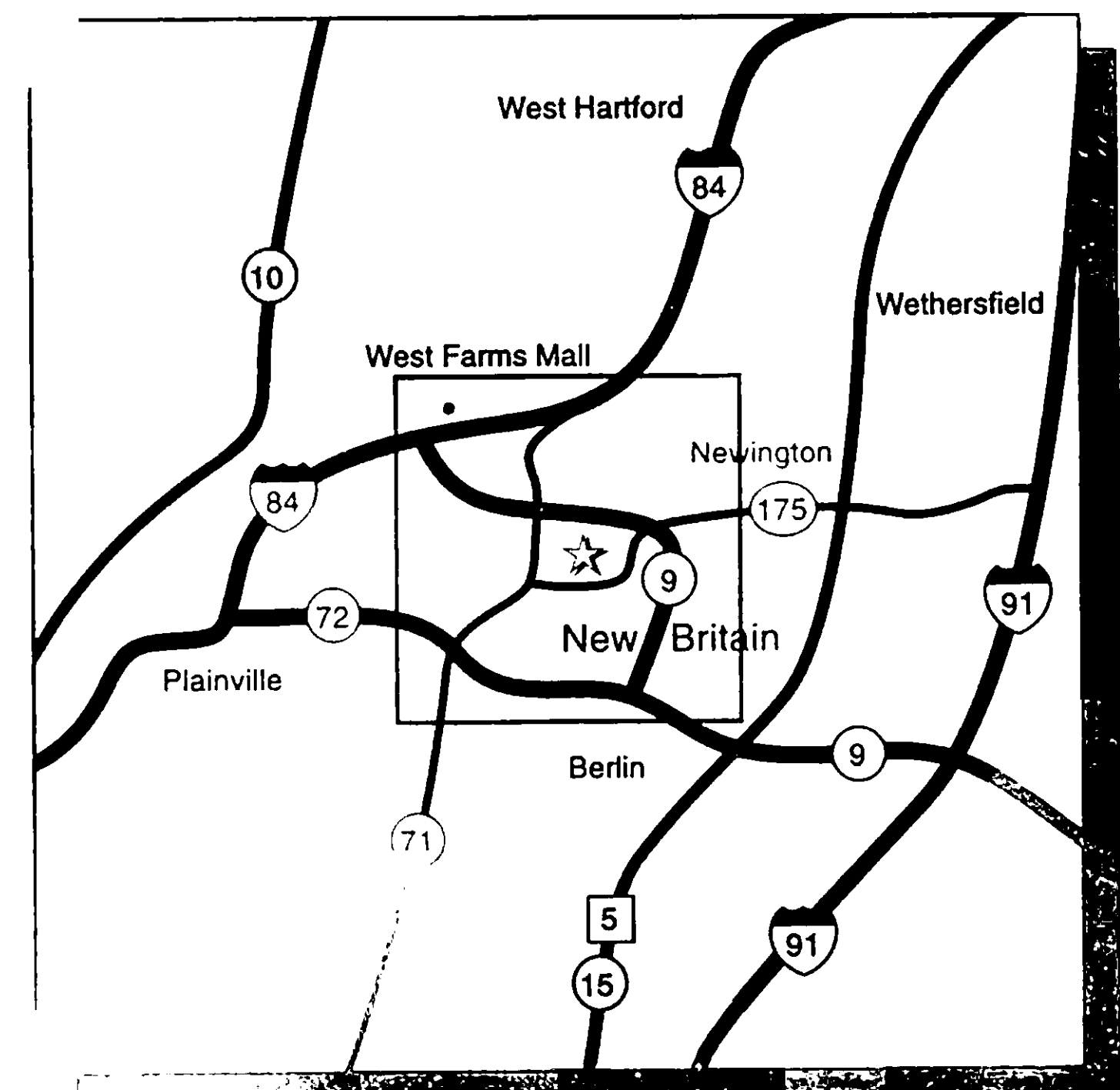


FROM THE SOUTH (New York area)

Take I-95 North to I-91 North to Exit 22 North to Rt. 9 North. Follow Rt. 9 to Exit 29, Cedar Street (Rt. 175). At the traffic light at the end of the ramp, take a left turn to the second traffic light, and take a right turn onto Paul Manafort Drive to the University.

FROM THE SOUTH (Rhode Island area)

Take I-95 South to Rt. 9 (Old Saybrook). Take Rt. 9 North to Exit 29, Cedar Street (Rt. 175). At the traffic light at the end of the ramp, take a left turn to the second traffic light, and take a right turn onto Paul Manafort Drive to the University.



FROM THE EAST

Take I-84 West to Exit 39A to Rt. 9 South. Take Exit 29 off of Rt. 9 to Ella Grasso Boulevard and take a right turn to the University.

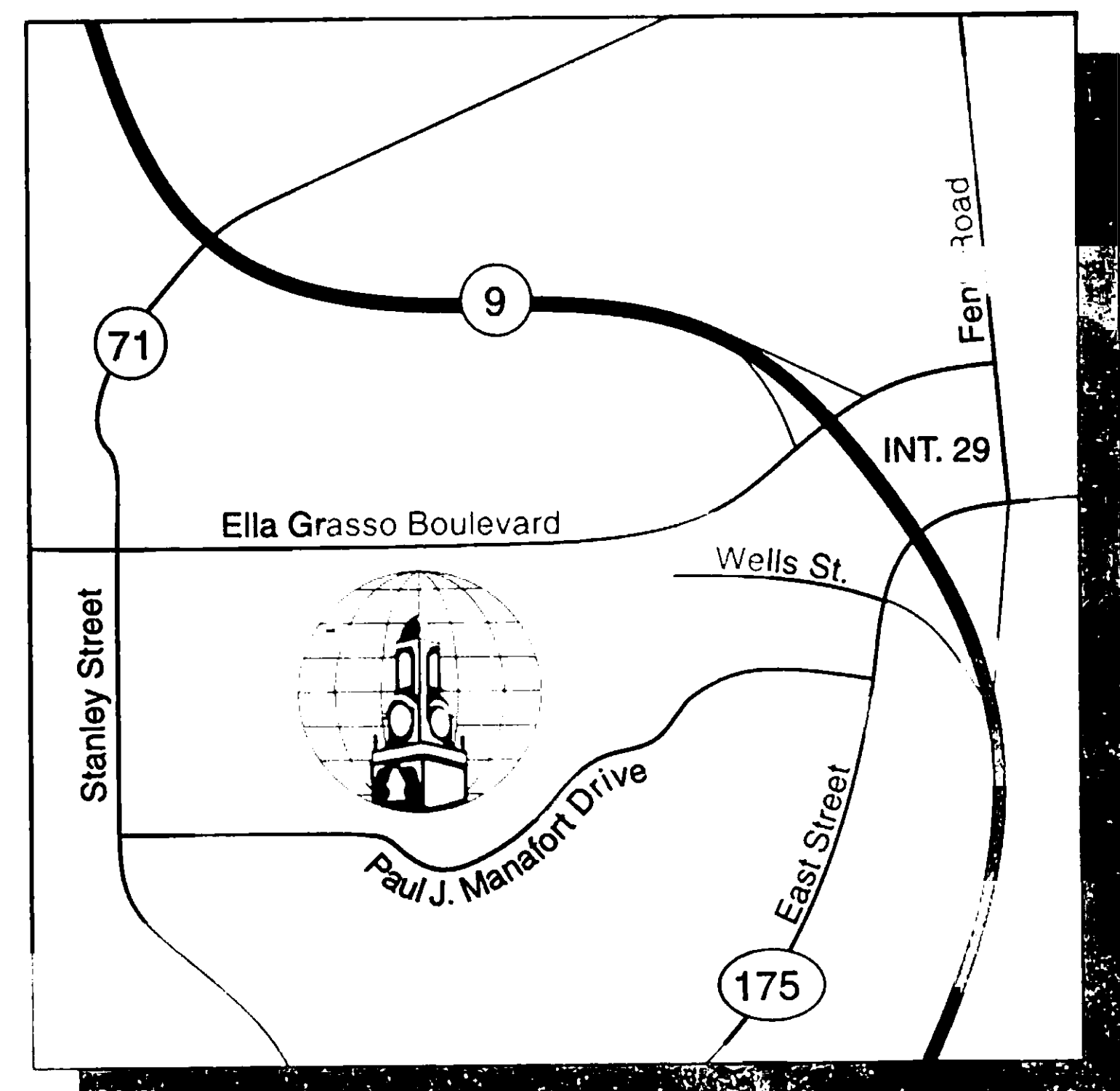
Alternate Route: Take I-84 West to Exit 40, (Corbins Corner), take a left turn at end of exit ramp, and a right turn at the next traffic light onto Rt. 71 South. Follow Rt. 71 South 3 miles to the University.

FROM THE WEST

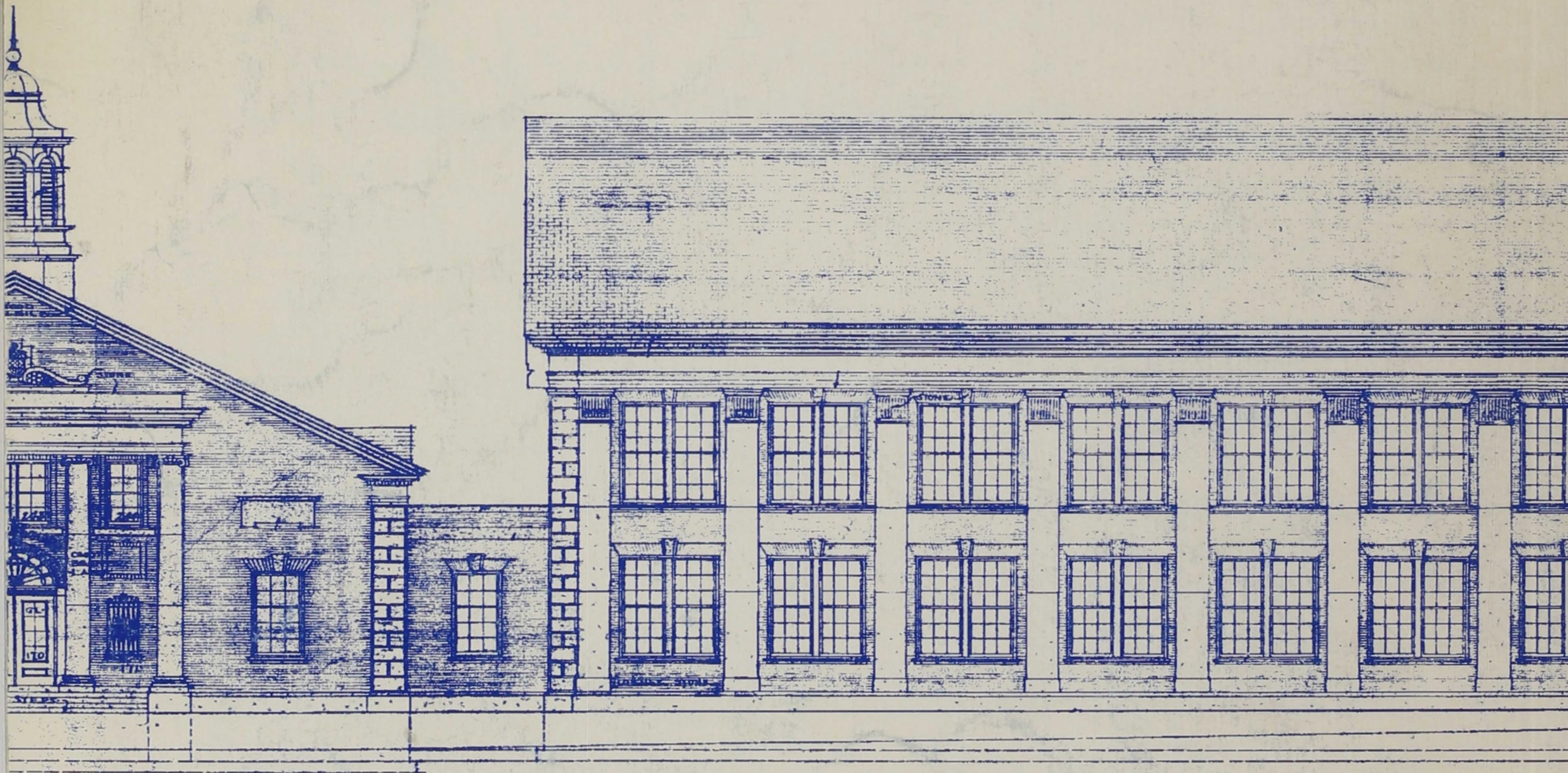
Take I-84 East to Exit 39A, to Rt. 9 South. Take Exit 29 off of Rt. 9 South to Ella Grasso Boulevard and take a right turn to the University.

Alternate Route: Take I-84 East to Exit 35, Rt. 72 East (New Britain Exit). Follow Rt. 72 East to Rt. 9 North

and take Exit 29 to Cedar Street (Rt. 175). At the traffic light at the end of the ramp, take a left turn to the second traffic light, and take a right turn onto Paul Manafort Drive to the University.



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