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UNDERGRADUATE CATALOG



CENTRAL CONNECTICUT
STATE UNIVERSITY

CONNECTICUT STATE UNIVERSITY SYSTEM

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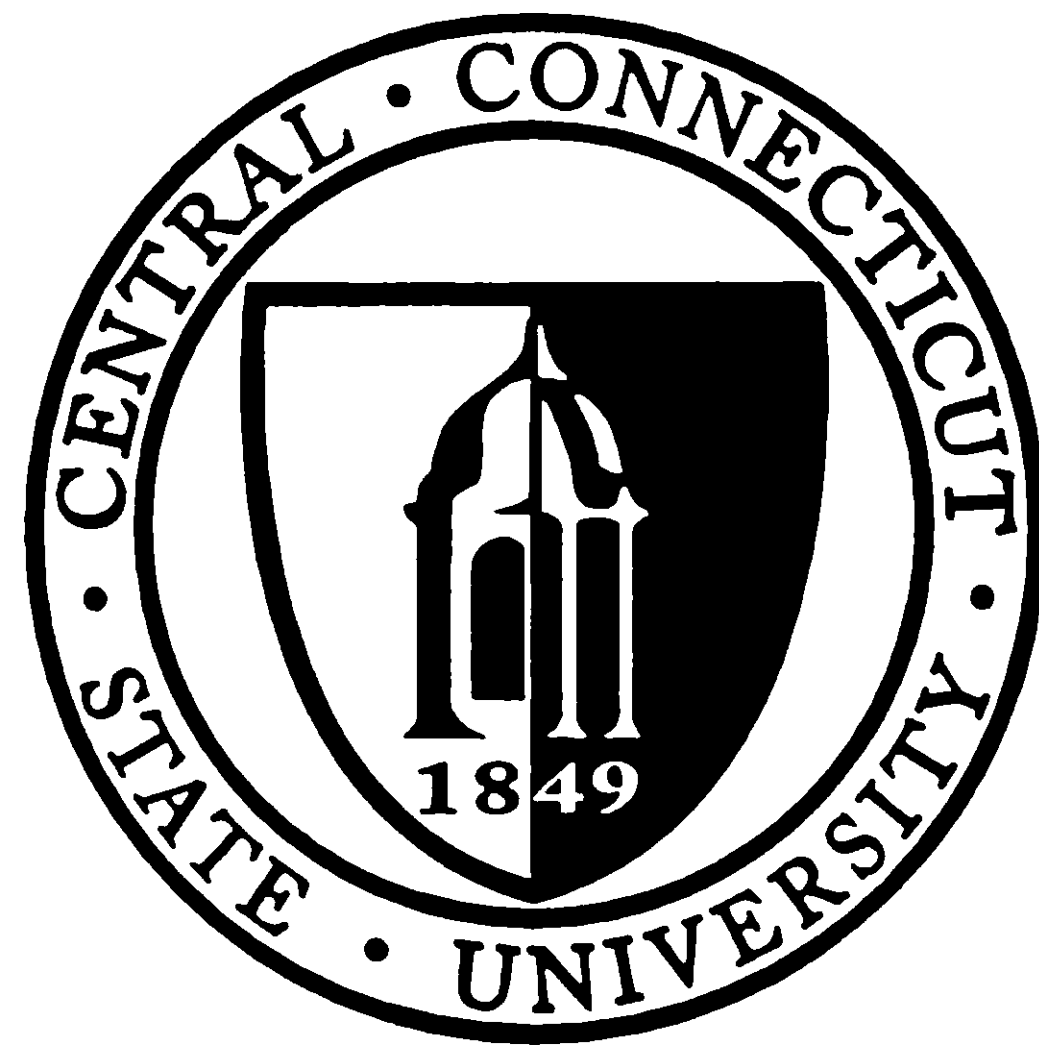
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CONNECTICUT STATE UNIVERSITY SYSTEM
39 Woodland Street • Hartford, CT 06105-2337



CENTRAL CONNECTICUT STATE UNIVERSITY

New Britain, Connecticut 06050-4010

Undergraduate Catalog 2003–2005

*Central Connecticut State University, one of four universities
of the Connecticut State University System*

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FAX: (860) 832-2295; TDD: (860) 832-1958
E-mail: admissions@ccsu.edu; Web site: <http://www.ccsu.edu>

Accreditation and Memberships

The University is accredited by the New England Association of Schools and Colleges, the Connecticut Board of Governors for Higher Education, and the Connecticut Department of Education (for its certification programs in education) and the National Council for the Accreditation of Teacher Education. Programs in chemistry are accredited by the American Chemical Society. The honors track of the computer science program is accredited by the Computing Sciences Accreditation Board. The civil 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: anesthesia.

The University is a member of the American Association of Colleges for Teacher Education, the American Association of Higher Education, the American Association of State Colleges and Universities, the Association of American Colleges and Universities, the American Council on Education, the College Board, the Council for Advancement and Support of Education, the Council of Graduate Schools, 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 2003–2004

Fall Semester 2003

August 25	Academic year begins
September 1	Labor Day Holiday — No classes
September 2	Last day for full-time students to withdraw with 100% refund
September 2	Classes begin 8 a.m.
September 2–9	Add/Drop Period
September 9	Last day to change from part-time to full-time status
September 6–20	Full-time students may drop courses but cannot drop below full-time status (need Dean's approval)
September 8	Last day for part-time students to withdraw with 100% refund
September 15	Final day for graduate students to apply for Dec. 2003 graduation (Graduate Studies)
September 15	Last day for full-time students to withdraw with 60% refund
September 22	Last day to declare Pass/Fail or Audit options; last day to change from full-time to part-time status; last day for part-time students to withdraw with 50% refund
September 22 to October 21	Withdrawal from courses permitted. "W" will be entered. No permission needed to go below full-time status
September 29	Last day to drop first eight-week courses; last day for full-time students to withdraw with 40% refund
October 21	Midterms. Last day to withdraw full-semester courses; first eight-week courses end
October 22	Second eight-week courses begin
November 24	Last day for full-time students to withdraw from the University
November 26–29	Thanksgiving Recess — No classes
November 26	Last day to drop second eight-week courses
December 1	Thanksgiving Recess ends 8 a.m.
December 1	Final day for undergraduates to apply for Dec. 2004 graduation (Registrar's Office)
December 11	Day classes end
December 12	Reading Day (No classes; make-up day if needed)
December 15–20	Final Exams
December 20	Semester ends; final day of Saturday classes

Winter Session 2004

December 29	Winter Session classes begin
December 31	No classes
January 1	New Year's Day — No classes
January 16	Winter Session classes end

Spring Semester 2004

January 19	Martin Luther King Day Holiday — No classes
January 20	Academic semester begins
January 26	Last day for full-time students to withdraw with 100% refund

January 26	Classes begin 8 a.m.
January 26–Feb 2	Add/Drop period
February 2	Last day to change from part-time to full-time status
January 30 to February 12	Full-time students may drop courses but cannot drop below full-time status (need Dean's approval)
February 2	Last day for part-time students to withdraw with 100% refund
February 9	Last day for full-time students to withdraw with 60% refund
February 13–16	President's Holiday Break — No classes
February 17	Last day to declare Pass/Fail and Audit options; last day to change from full-time to part-time status; last day for part-time students to withdraw with 50% refund
February 17 to March 15	Withdrawal from courses permitted. "W" will be entered. No permission needed to go below full-time status
February 23	Last day to drop first eight-week courses; last day for full-time students to withdraw with 40% refund
March 1	Final day for graduate students to apply for May/August 2004 graduation (Graduate Studies)
March 15	Midterm. Last day to withdraw full-semester courses; first eight-week courses end
March 16	Second eight-week courses begin
March 20	Spring Recess begins 1:30 p.m.
March 29	Spring Recess ends 8 a.m.
April 9	Good Friday (A Day of Reflection) — No classes
April 12	Last day to drop second eight-week courses
April 19	Final day for full-time students to withdraw from the University
April 30	Final day for undergraduates to apply for May 2005 graduation (Registrar's Office)
May 12	Day classes end
May 13–14	Reading Days (No classes; make-up day if needed)
May 17–22	Final Exams
May 22	Semester ends; final day of Saturday classes
May 22	Undergraduate Commencement
May 27	Graduate Commencement

Summer Session 2004

June 1	First five-week session begins; eight-week session begins
July 1	First five-week session ends
July 5	Independence Day celebrated — No classes
July 6	Second five-week session begins
July 22	Eight-week session ends
August 5	Second five-week session ends
August 9	Three-week post session begins
August 26	Three-week post session ends

UNIVERSITY CALENDAR 2004–2005

Fall Semester 2004

August 23	Academic year begins
August 30	Classes begin 8 a.m.
August 30	Last day for full-time students to withdraw with 100% refund
Aug. 30–Sept. 7	Add/Drop Period
September 6	Labor Day Holiday — No classes
September 7	Last day to change from part-time to full-time status; last day for part-time students to withdraw with 100% refund
September 8–21	Full-time students may drop courses but cannot drop below full-time status (need Dean's approval)
September 13	Last day for full-time students to withdraw with 60% refund
September 15	Final day for graduate students to apply for December 2004 graduation (Graduate Studies)
September 21	Last day to declare Pass/Fail or Audit options; last day to change from full-time to part-time status; last day for part-time students to withdraw with 50% refund
September 22 to October 18	Withdrawal from courses permitted. "W" will be entered. No permission needed to go below full-time status
September 27	Last day to drop first eight-week courses; last day for full-time students to withdraw with 40% refund
October 18	Midterms. Last day to withdraw full-semester courses; first eight-week courses end
October 19	Second eight-week courses begin
November 15	Last day to drop second eight-week courses
November 22	Last day for full-time students to withdraw from the University
November 24–28	Thanksgiving Recess — No classes
November 29	Thanksgiving Recess ends 8 a.m.
December 1	Final day for undergraduates to apply for December 2005 graduation (Registrar's Office)
December 9	Day classes end
December 10	Reading Day (No classes; make-up day if needed)
December 13–18	Final Exams
December 18	Semester ends; final day of Saturday classes

Winter Session 2005

December 27	Winter Session classes begin
December 31	No classes
January 1	New Year's Day — No classes
January 13	Winter Session classes end

Spring Semester 2005

January 17	Martin Luther King Day Holiday — No classes
January 18	Academic semester begins
January 24	Classes begin 8 a.m.; last day for full-time students to withdraw with 100% refund

January 24–31	Add/Drop period
January 31	Last day for part-time students to withdraw with 100% refund
February 1–14	Full-time students may drop courses but cannot drop below full-time status (need Dean's approval)
February 7	Last day for full-time students to withdraw with 60% refund; last day to change from part-time to full-time status
February 14	Last day to declare Pass/Fail and Audit options; last day to change from full-time to part-time status; last day for part-time students to withdraw with 50% refund; last day to drop first eight-week courses
February 22	Last day for full-time students to withdraw with 40% refund
February 18–21	President's Holiday Break — No classes
February 15 to March 18	Withdrawal from courses permitted. "W" will be entered. No permission needed to go below full-time status
March 1	Final day for graduate students to apply for May/August 2005 graduation (Graduate Studies)
March 18	Midterm; last day to withdraw full-semester courses; first eight-week courses end
March 21–27	Spring Recess — no classes
March 25	Good Friday (A Day of Reflection)
March 28	Spring Recess ends 8 a.m.; second eight-week courses begin
April 18	Last day to drop second eight-week courses; final day for full-time students to withdraw from the University
April 30	Final day for undergraduates to apply for May 2006 graduation (Registrar's Office)
May 11	Day classes end
May 12–13	Reading Days (No classes; make-up day if needed)
May 16–21	Final Exams
May 21	Semester ends; final day of Saturday classes
May 21	Undergraduate Commencement
May 26 (proposed)	Graduate Commencement

Summer Session 2005

May 31	First five-week session begins; eight-week session begins
June 30	First five-week session ends
July 4	Independence Day — No classes
July 5	Second five-week session begins
July 21	Eight-week session ends
August 4	Second five-week session ends
August 8	Three-week post session begins
August 25	Three-week post session ends

GENERAL INFORMATION

The University

Central Connecticut State University (CCSU) is a regional, comprehensive public university dedicated to learning in the liberal arts and sciences and to education for the professions. Comprising four schools—Arts and Sciences, Business, Education and Professional Studies, and Technology—CCSU offers undergraduate and graduate programs through the Master's and sixth-year levels, and a doctoral program (Ed.D.) in Educational Leadership. Committed to offering Connecticut citizens access to our distinctive academic programs of high quality, the University is also a responsive and creative intellectual resource for the people and institutions of our state. Over 85 percent of our graduates remain in Connecticut, contributing to the intellectual, cultural, and economic health of our state.

Founded in 1849 as the New Britain Normal School—a teacher-training facility—CCSU is Connecticut's oldest publicly supported institution of higher education. It became the Teachers College of Connecticut in 1933, and after a period of extensive institutional growth and external expansion it became the Central Connecticut State College in 1959. In recognition of the institution's continual development in mission and aspiration, the present name and educational charter were conferred in 1983. Honoring our "visionary innovations in undergraduate education," the Association of American Colleges & Universities selected CCSU as one of only 16 "Leadership Institutions" in the nation—and the only one in Connecticut.

The largest of four comprehensive universities within the Connecticut State University System, CCSU enrolls approximately 7,000 full-time and more than 5,000 part-time students. The University has a full-time faculty of nearly 400 members, over 70 percent of whom possess the doctorate, and 450 part-time instructors offer an array of distinctive educational and professional experiences.

CCSU is embarked on a major campus renovation program, investing in state-of-the-art technologies and creating a campus of beauty and hospitality to assure the University's place among the finest educational institutions in Connecticut. An expanding network of global study-abroad opportunities and overseas inter-institutional arrangements

has made CCSU the state's leading public international university.

Our Mission

Central Connecticut State University is a community of learners dedicated to teaching and to scholarship. We encourage the development and application of knowledge and ideas through research and outreach activities. We prepare students to be thoughtful, responsible and successful citizens.

Central Connecticut State University is, above all else, about teaching undergraduate and graduate students. Our research endeavors improve us as teachers and expose our students to methods of inquiry. The public service expected of all members of our community benefits our society — local and global — and builds our sense of citizenship.

We value the development of knowledge and its application in an environment of intellectual integrity and open discourse. We expect that members of the University will engage in activities ranging from basic research and the creation of original works, to helping individuals and organizations achieve success in purely practical endeavors. All these activities enrich our community of learners.

As a public university, we receive support from the State of Connecticut. We have three designated Centers of Excellence and many nationally accredited programs. We take very seriously our commitment to provide access to higher education for all citizens in this State who can benefit from our offerings. Our high expectations for ourselves contribute to the fine quality and continuous improvement of our undergraduate and graduate programs. We believe that quality and access are compatible and simultaneously achievable; our objective is to provide the support needed for our students to reach their full potential.

We also believe that higher education should promote the personal and social growth of our students, as well as their intellectual achievement and professional competence. We provide various opportunities for students to engage in activities or to join organizations and clubs where they develop leadership and other social skills. We foster a welcoming environment in which all members of our diverse community receive encouragement and acquire self-confidence.

Central Connecticut State University aspires to be the premier public comprehensive university in Connecticut, with teaching

as its primary focus, enhanced by the dynamic scholarship of its faculty; be highly regarded by its many constituents; be a significant resource contributing to the cultural and economic development of Connecticut; be global in its perspective and outreach; and be widely respected as a university dedicated to innovative, activity-based, life-long and learner-centered higher education.

Affirmative Action Policy

Central Connecticut State University is committed to a policy of non-discrimination, equal opportunity and affirmative action for all persons regardless of race, color, religion, sex, sexual orientation, age, national origin, marital or veteran status or disability. This policy is applicable to all employment practices, admission of students, programs and services to students, faculty, staff and the community.

The University's affirmative action policy seeks to include persons of color, women, veterans and persons with disabilities in its educational programs and in all job groups of its work force. Further information is available from the Office of Counsel to the President/Multicultural Affairs, located in Davidson Hall 104 (832-3025).

Resources

Central Connecticut State University is situated approximately two hour's 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.

Advising

Each student is assigned an academic advisor for consultation on course selection and approval of each semester's program of studies. The academic deans, as well as faculty advisors, assist students in a wide range of academic matters. The Office of Registrar helps resolve problems concerning transfer credits, program changes and schedule conflicts. Students who are considering changing majors should contact departmental chairs of their new majors. Undecided students should contact the Advising Center for help in making this decision. For more information on the Advising Center, see page 11.

Alumni Association

The CCSU Alumni Association sponsors programs and services for students, alumni, and members of the University community. The Alumni Association also sponsors Homecoming, Alumni Day, Read Across America Day, class reunions, chapter activities and other social programs, and an affinity credit card, as well as group insurance programs, for its over 50,000 members. The Association offers its members access to the campus computing facilities (for two semesters following graduation), career and library services, and discount tickets to athletic events. A Board of Directors, consisting of alumni who volunteer their time to enhance the Association's programs and its relationship with the University community, governs the Association. For more information, contact the Alumni Affairs Office at 832-1740.

Alumni Association Mission Statement: To establish mutually beneficial relationships between and among the alumni and the rest of the University to promote the mission and image of the University.

Campus Ministry

The campus ministers are available for personal counseling and participation in classroom discussion. They also sponsor retreats and provide a variety of social, spiritual, educational and community programs. Students are encouraged to contact the Ministry Office (Marcus White, Room 220, 832-1935) for further information concerning programs and services of the Protestant, Jewish, Catholic and Islamic Campus Ministries, and the religious student organizations, including Christian Students at Central (CSAC), Hillel Jewish Student Organization and Newman Club.

Copernicus Science Computing Laboratory

The Copernicus Science Computing Laboratory, located in the Francis J. Rio Interdisciplinary Science Center (Copernicus 227), serves the faculty and students in the natural and physical sciences. The Computing Lab houses networked PCs and Macintoshes, as well as printers, scanners, and multimedia projectors.

Cultural Opportunities

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

On campus, the Samuel S. T. Chen Art Center features an array of international, national, and regional artists in exhibits of fine arts, design, and scholastic arts. The Theatre Department facilities include one of the best-equipped, flexible, experimental stages in the region. Students may take advantage of concerts, theatre, choral performances, and dance presentations by student groups, faculty, and professional companies from around the world.

The Student Center Program Council Arts Committee is committed to presenting a variety of visual and performing arts. Interested students should contact the Program Council in the Student Activities Office of the Student Center.

In addition to CCSU's newly renovated Thaddeus L. Torp Theatre, which provides a handsome stage for the performing arts, Welte Hall is "home" for The New Britain Symphony Orchestra four times per year.

Beyond campus, students will find two local, nationally known art museums, the New Britain Museum of American Art and the Wadsworth Atheneum in Hartford. Area theatres, including Hartford Stage, the New Britain Repertory Theatre, TheaterWorks, The Hole in the Wall, the Goodspeed Opera House in East Haddam, and The Bushnell in Hartford, offer a variety of music, drama, and dance. The Bushnell, in fact, is home to the Hartford Symphony Orchestra, Dance Connecticut, Connecticut Opera, Chamber Music Plus! and The Connecticut Forum.

Elihu Burritt Library

The Elihu Burritt Library holds over 650,000 volumes, subscribes to over 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 17,000-volume Polish Heritage Collection, a rare book collection of 16,000 volumes and an extensive curriculum laboratory. Access to research materials is facilitated through CONSULS, the Library's on-line catalog, as well as through searching extensive on-line databases.

Information Technology Services (ITS) (Henry Barnard Hall) provides technology and communication services to the University community in support of

CCSU's mission and strategic goals. ITS supports instruction, research, administration, and public service through effective use of computing and communication technologies, academic and administrative services, communication and multimedia delivery systems, and identification of new technologies and services, as well as education and guidance to users.

The **Microcomputer Lab** (Marcus White Annex) is the primary location for student access to computers and offers approximately 230 computers (PC and Macintosh), many laser printers, and a number of scanners available for student use. All of the computers have a wide variety of popular software applications, as well as direct access to the Internet.

Users have access to any of the available hardware and software on a first-come first-served basis. The lab is open 90 hours per week, including weekends. A student ID card and CCSU Computer Account (username and password) allow a student to access all campus computer resources, including all of the software available on the computers in the lab. The primary focus of this lab is to provide support for students' academic achievements and classroom/instructional activities.

The Learning Center

The Learning Center (TLC) provides a full range of academic support services for students seeking additional help with their coursework. TLC offers individual study skills tutorials, mathematics tutoring, Praxis I practice for students applying for teacher certification, the Mathematics Placement Exam, ID 102: Master Student (a six-week study skills course), and ESL academic support.

Students who wish to establish a strong grade point average are encouraged to visit The Learning Center early in their college experience for assistance with exam preparation, collegiate learning strategies and time management. TLC is located in Copernicus Hall, Room 241 (832-1900). For more information, visit our Web site at www.ccsu.edu/learnctr/.

The Learning Center also provides graduate assistantships and undergraduate work-study positions for students with strong academic skills who are seeking opportunities to work with other students in a stimulating and supportive environment.

The **Mathematics Tutoring Center**, located in Copernicus Hall, Room 242, provides drop-in tutoring for lower division mathematics courses. The tutorial schedule

is posted in The Learning Center during the first week of every semester. The schedule includes both day and evening hours.

Media Center

The Media Center, located in Willard Hall, 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.

Multi-Media Language Learning Center

The Multi-Media Language Learning Center (Barnard 336) provides students with appropriate technology for language study and cultural enrichment. The lab is equipped with audio, video and laser disk technology, as well as web-capable computers for interactive learning.

Sports and Recreation

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

Harrison J. Kaiser Hall houses the Physical Education and Athletics departments, the William H. Detrick Gymnasium seating 3,800 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 games. Other sports facilities include Kaiser Annex, a 37,000-sq. ft. recreational/athletic air-supported structure; tennis courts and fields for soccer, softball, baseball, touch football and recreation.

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

CCSU'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 Northeast 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.

A Title IX Coordinator works with the Athletics Department to ensure Title IX compliance. Title IX is a federal civil rights statute that prohibits gender discrimination in education programs, including athletic programs that receive or benefit from federal funding. The major athletic categories that are analyzed for compliance are: sports offerings, scholarships, and other program areas, including equipment and supplies, coaching, availability, competitive facilities, and tutoring.

Student Activities/Leadership Development

The Department of Student Activities/Leadership Development aids student organizations in developing many educational, recreational, social and cultural extracurricular activities. These activities are co-curricular in their goals. One of the major functions of this office is to create opportunities for student leaders to develop, using workshops, seminars, instruction and a recognition program.

The office is also responsible for advising the Central Activities Network and for the general coordination of student activities. The Department of Student Activities/Leadership Development (832-1990) is located in the Student Center. Central Activities Network (C.A.N.) is the major social and educational programming body at CCSU and includes Central Mainstage (music and special events), Central Perk (wellness and educational programs), Cinema Central (weekly film series), Club Central (comedians, game nights, and student performances), Community Central (off-campus trips and community service), and Network Central (monthly activities calendar, event hotline, and Web page development). Students can become involved in C.A.N. on several levels: committee members, committee chairs, or positions such as an area coordinator or officer. Students devote their time and energy to plan and implement over 150 programs a year for the CCSU community, including major events such as First Week, Winter Carnival, and Spring Week.

Students who volunteer with the Central Activities Network gain valuable experience in leadership, teamwork, communication, time management, and budgeting skills. The main component of C.A.N. is fun and friendship. The organization is

open to all CCSU students and welcomes input and ideas from everyone. For more information, please stop by the Central Activities Network office located in the Student Center, Room 203, or check out the Web site at <http://stdctr.ccsu.edu/can>.

Detailed information on the Department of Student Activities/Leadership Development is available at the Student Union Web site at <http://stdctr.ccsu.edu/sald>.

Student Center

The Student Center is the meeting place of the campus community and provides services that support student life. The 80,000 square feet of new and renovated area provides our University community quality meeting and programming space. The Student Center is also the home of Student Activities, as it houses the offices of the Black Student Union, the Mosaic Center, PRIDE, Central Activities Network, WFCS, Recorder, and Student Government Association. It also serves as the new home of the Women's Center, CenConn Credit Union, Bookstore, and Card Office.

In order to make it convenient to access support services, the Student Center offers a new food court, an expanded bookstore, and a full service bank. There is a student mailbox area where all resident and many commuter students have their own mailboxes.

The **Information Desk** (860-832-1970) is located in the main lobby of the Student Center and provides a variety of services, including a schedule of campus events, lost and found, and general campus information. Emergency equipment and periodicals are available to borrow with a valid CCSU student ID.

The **Student Center Reservations Office** (860-832-1964) offers support in the planning and production of meetings, concerts, shows, banquets, or dances to be held in the Student Center. Please call the Student Center Reservations Office or stop by our office. Our scheduling coordinator can assist with all of facility and service needs for programs held in the Student Center or Memorial Hall.

CENtix, the campus box office (860-832-1989), is located at the Information Desk and sells tickets for most campus events, such as CAN events, Theatre Department productions, athletic events, and some off campus-sponsored events. It also offers a fax service.

The **Breakers Game Room** offers eight tournament billiard tables, foosball, elec-

tronic amusements, board games, and sports television. Party packages are available.

An **automated teller machine**, located at the Student Center North Entrance near the Bookstore, is available 24 hours a day.

House phones are located in several areas of the Student Center and provide free local calls or calls to any campus office. **Pay phones** are located at the north and south-east entrances on the exterior of the building for long distance calls.

Lockers are a free service located near the Bookstore. Private locker rentals for a semester are available.

Lounges are available throughout the Student Center for relaxation and study needs.

Walkup e-mail and web surfing stations are available in several locations in the Student Center. In addition, access points to the campus network via wireless cards and Ethernet cards are available.

The Student Center is committed to student development and provides opportunities for student participation in its operations through employment. Our **S.T.A.R. employees** manage and operate the Student Center facility and the various service areas, such as Breakers, Information Desk, CENtix box office, technical event support, SC Web site and TW@C. That's why our most important asset is our student staff! For student employment information, go to <http://stdctr.ccsu.edu/star/>.

Please note all service area hours are subject to change. Updated information on services is available at <http://stdctr.ccsu.edu>.

Women's Center

The Ruthe Boyea Women's Center, 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, a luncheon series and programming and research on women's issues. The staff of the center also sponsors educational and cultural programs in response to the needs and interests of campus women. The Ruthe Boyea Women's Center is located on the second floor of the Student Center (832-1655). Both men and women are welcome.

Writing Center

The Writing Center (Willard Hall, Room 305) provides one-to-one tutorials and small-group workshops to help members of the CCSU community improve their writing in

areas such as drafting compositions, preparing research papers and taking essay exams. Appointments for tutorials are available Monday through Friday from 9 a.m. to 4 p.m. by calling 832-2765.

Services

Academic Center for Student Athletes

The Academic Center for Student Athletes (ACSA) serves as a comprehensive program providing academic support for CCSU's intercollegiate student-athletes. The Center's staff assists student-athletes during team study halls and one-on-one meetings by introducing them to time management tools, learning strategies and campus resources. The Center, located in the library, is equipped with computers and provides a comfortable environment for studying. ACSA is also affiliated with the NCAA Champs Life Skills Program and offers a variety of life skills programs each year.

Advising Center

The Advising Center assists students in developing and implementing academic and career plans. For new students, the Advising Center provides pre-registration advising on University requirements. 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. For students who are uncertain about their major or their career plans, the Advising Center offers several self-assessment instruments to clarify values and to identify interests and career options. Advisors can help students select experiential learning opportunities such as internships, community service, student activities and cooperative education. If career plans involve graduate study, the Advising Center has preliminary graduate school information and also refers students to faculty advisors who can assist them further. The Advising Center serves both faculty and students as a resource center for developmental advising.

Campus Mediation Services

Campus Mediation Services recognizes that conflicts are a part of everyone's life. Its purpose is to help students responsibly and constructively solve their own conflicts.

Sometimes people are unable to resolve their own conflicts by themselves, and they need someone to help.

Mediation is a voluntary, confidential and structured process of resolving disputes and conflicts with the help of a neutral third party. A mediator helps disputing parties to generate and evaluate options for reaching a mutually acceptable agreement. Often students in conflict don't have an opportunity to talk over their grievances in a neutral setting and to work together to find their own solutions. As a result, anger and frustration grow. Mediation is a workable alternative.

Campus Mediation Services is conducted on an as-needed basis. For questions regarding Campus Mediation, please call Natalie Stimpson-Byers, Assistant to the Vice President for Student Affairs/Coordinator for Special Student Services; Davidson Hall, Room 103, 832-1603.

Career Services and Cooperative Education

The University Career Services Office (www.ccsu.edu/career) provides a comprehensive program of career services to all students. Graduating students are provided assistance with making the transition to employment through 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 which can also be accessed through the Career Services/Co-op homepage (<http://www.ccsu.edu/career/>) and the Voice Job Line (832-1647). Career fairs offer opportunities to meet with employers regarding all types of employment opportunities, Co-ops, and internships. The following career fairs take place during the academic year: September—"On-Campus Employment Fair," October—"Accounting Career Fair," November—"Fall Career Fair," and April—"Spring Career Fair."

Experiential education is a major focus for both undergraduate and graduate students. Career Services coordinates the University's sizeable Cooperative Education Program which is described in detail on page 86 of this catalog. Through this program, students work at six-month, paid

positions which are related to their major field of study and provide them with real world experience.

Career Services also helps students to access paid and unpaid internship opportunities through which students develop professional skills and test out their career goals.

Center for Africana Studies

The Center for Africana Studies at Central Connecticut State University develops and encourages the study and teaching of Africa, African Americans, and people of African descent throughout the Diaspora. The Center promotes and expands the understanding of the ideas, knowledge, experiences, and approaches to the study of Africa and the Diaspora; promotes research, consultation, and community service among the CCSU faculty, students, and scholars in the community and throughout the world about Africa and people of African descent; provides undergraduate and graduate instruction about Africa, African Americans, and people of African descent around the world; educates the neighboring communities and engages them in understanding the African experience; and develops international support systems for students and scholars of Africana Studies.

The Center for Africana Studies sees student participation in its activities as crucial to achieve its goals. In addition, it sees its extracurricular activities as critical both to student and faculty development and in ensuring that the community is well informed about Africa and Africans in the Diaspora.

Center for Caribbean/Latin American Studies

The Center for Caribbean/Latin American Studies, located in Burritt Library, seeks to fulfill three of the University's primary goals. CCSU aims to be of service to the communities of central Connecticut, in particular, and the state in general; the University seeks a meaningful international presence in a variety of geographical areas; and CCSU is committed to nourishing efforts that foster a respect for the state's many ethnic communities.

To help achieve these goals the Center has faculty and student liaison agreements with a variety of institutions of higher learning: The Pontifical Catholic University of Puerto Rico; the University of the West Indies in Jamaica, Barbados and Trinidad; the eight branches of Interamerican University in Puerto Rico; the College of

the Bahamas; and the Pontifical Catholic University, Madre y Maestra, in the Dominican Republic. The Center for Caribbean/Latin American Studies sponsors a variety of community events and also supports an active research facility.

Center for Public Policy and Social Research

The Center for Public Policy and Social Research is located in the Robert C. Vance Academic Center, with a Social Research satellite office in DiLoreto Hall. The Center, incorporating the William A. O'Neill Endowed Chair in Public Policy and Practical Politics, offers innovative academic, research, and outreach programs which encourage active participation in local and state affairs through thoughtful citizenship and public service. These programs include: the archiving of the papers of former Governor William A. O'Neill and those of other significant figures in Connecticut's public policy history; an active program of oral history complementing the archives; and sponsorship of symposia dealing with critical public policy issues. The Center, working closely with the Schools and academic departments, plans to develop an interdisciplinary Connecticut Curriculum, as well as informational and training programs of assistance to Connecticut's state government, municipalities, and non-profit organizations.

The Center's Social Research function is maintained as an affordable resource for non-profit organizations and communities locally, regionally, nationally, and internationally that need assistance with survey research, program evaluation, and project development. Among these resources are expert faculty and capable students from the Schools of Arts and Sciences, Business, Education and Professional Studies, and Technology. The Center offers students and faculty the opportunity to apply their academic experience to real-world environments.

Early Alert Program

The Operation Early Alert early intervention program exists to intervene with students that have poor grades or attendance. Poor academic performance or attendance can often be a symptom of a deeper problem for a student. If we can meet with and help the student early in the semester, there is a better chance of facilitating academic success. Faculty, administrators, staff, and students are encouraged to refer students having diffi-

culty in class to ensure a successful completion of course studies. For more information, contact Natalie Stimpson-Byers, Assistant to the Vice President for Student Affairs/Coordinator for Special Student Services; Davidson Hall, Room 103, 832-1603.

The George R. Muirhead Center for International Education

Established by the Board of Governors for Higher Education in 1987 as a statewide Center for Excellence in International Education, the George R. Muirhead Center for International Education is the cornerstone of the University's unwavering commitment to international education. The Center contributes to the University's mission by developing and supporting internationally focused programs, both academic and extracurricular, and providing a forum for students, faculty, staff, and alumni to pursue common interests with partner institutions around the globe. Working in partnership with the University's academic departments and programs, such as the International and Area Studies Program, the Center promotes the concept of graduating globally competent students.

Through the extensive network of university partnerships around the world, the Center makes many overseas study options available. In any given year, the Center offers programs in Europe, the Caribbean, West Africa, the Middle East, and Latin America, and new programs continue to be developed and nurtured. CCSU students are strongly encouraged to pursue overseas study as part of their academic program, whether long-term study through the Study Abroad program or short-term study through a course taught abroad. By living and learning in another culture, CCSU students are prepared for the increasingly integrated and interdependent world around them.

The Center also welcomes a growing number of international students to campus each semester. From the moment they are recruited until graduation and beyond, the Center advises and supports international students as they pursue their studies on our campus. Through intercultural programming, which brings students of many different cultures and origins together, the Center fosters a spirit of cross-cultural understanding, where everyone involved has the opportunity to learn about someone else's customs and values, learning about themselves in the process.

Institute for Municipal and Regional Policy

The Institute for Municipal and Regional Policy (IMRP), located in the Vance Academic Center, provides educational materials and forums for individuals and organizations interested in increasing awareness of the potential for regional solutions to fiscal and social problems in Connecticut. Regional challenges of particular interest to the Institute include traffic congestion and air quality, linking citizens with more transportation options, training a workforce to meet changing regional demands, "smart growth" and land use planning, economic development, regional tourism development, property tax reform, and the financing of regional initiatives through sharing property tax revenue.

Institute of Technology and Business Development

The Institute, located at 185 Main Street in downtown New Britain, supports Connecticut businesses and organizations by providing a full spectrum of training, technology, and manufacturing process assistance, government procurement services, and conferencing services. Its cost-effective business incubation services give start-up companies a chance to grow and thrive. Through these activities, the ITBD provides the resources necessary to give Connecticut companies competitive and economic advantages. The Institute also houses the New Britain Industrial Museum.

Office of Hispanic Business Collaboration

The Office of Hispanic Business Collaboration encourages joint ventures between Connecticut and Caribbean/Latin American business interests by facilitating business missions to the Caribbean and Latin America, by arranging business internships for Connecticut students, and by offering special assistance to entrepreneurs seeking to create economic links from Connecticut to the Caribbean and Latin America. The Office is located with the Spanish American Merchants Association at CCSU's facility at 185 Main Street in downtown New Britain.

Pre-Collegiate and Access Services

The office of Pre-Collegiate and Access Services coordinates the Educational

Opportunity Program, CCSU's Connecticut Collegiate Awareness and Preparation Program (ConnCAP) and the Upward Bound program at Central Connecticut State University.

The Educational Opportunity Program (EOP) is a 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. EOP students live on campus in CCSU residence halls during the summer with all expenses paid, including books, tuition, room and board.

Graduates of the summer program are admitted to CCSU as full-time students in the fall. EOP students participate in ongoing orientation and tutoring programs throughout their first year and receive support services all through their college experience. EOP alumni actively support CCSU and EOP through their contributions to student scholarship funds and mentoring activities with EOP undergraduates.

This program is limited to 50 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.

CCSU's Connecticut Collegiate Awareness and Preparation Program and Upward Bound are college preparation programs serving 170 low income, first generation college-bound middle and high school students from New Britain and Bristol. The goal of the programs is to increase the number of students who complete high school and successfully enroll in post-secondary education. Working cooperatively with the middle and high schools in these cities, the programs provide a wide range of activities and services to strengthen academic skills, self-esteem, motivation and a love of learning. Services and activities take place year round in the middle and high schools and on CCSU's campus in the summer.

For more information on these programs, contact Awilda Reasco, Director, Pre-Collegiate and Access Services, Copernicus Hall, Room 205 (832-1902).

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 pre-

vention 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, alcohol education classes, prevention education programs on a range of behavioral health issues and training for student leaders, staff and faculty.

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

Special Student Services

The Office of Special Student Services assists students with disabilities (including visual, hearing, physical, psychological and all forms of learning disabilities) in obtaining the services they need to access a quality education. A wide range of services is available, including personal counseling, academic advising, certified sign language interpreting and priority scheduling. In addition, assistance is provided in securing readers, distraction-reduced testing locations, 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 (832-1955), TDD (860) 832-1958, or with Ms. Natalie Stimpson-Byers, Assistant to the Vice President for Student Affairs, Davidson 106 (832-1603), for assistance in application and educational planning.

Student Judicial Programs

The Director of Student Judicial Programs administers the student conduct system for all full- and part-time students. The goal of the Office of Student Judicial Programs is the resolution of discipline cases in a developmentally sound manner consistent with University policy and applicable state and federal laws. This Office assists with the coordination of conduct referrals to counseling or alcohol and other drug education programs.

In addition, this Office is responsible for the development and coordination of a vari-

ety of special activities designed to educate students, faculty, and staff concerning the student conduct system. It is also responsible for developing ways to effectively respond to incidents or issues which threaten to disrupt the learning environment. The Director of Student Judicial Programs is available to all students, faculty, and staff who may have questions or concerns regarding the University Judicial System.

When, according to the records of the Office of Judicial Programs, it appears that a student has failed to complete sanctions from a prior disciplinary resolution by the required deadline, has failed to respond to requests to meet to resolve reported disciplinary violations, etc., restrictions may be placed on the student's ability to register for courses, housing, etc., until the matter has been fully resolved. The department is located in Barrows Hall, Room 110 (832-1667).

Tourism and Hospitality Institute

The provision of a solid market research component in today's business world is essential. It provides data for problem solving, forecasting for proactive initiatives and an assessment of the overall health of the business. To date, the tourism industry in the State of Connecticut has enjoyed excellent growth. However, there is a lack of solid empirical data on which to base future marketing decisions, and the performance of the industry is little known and by default anecdotal in nature.

In February 2001 the CCSU Tourism and Hospitality Institute was created to rectify this deficiency and put the marketing of Connecticut tourism on a sound research base. This research institute will provide accurate and timely market research for the state's tourism industry. In the process, the Institute will involve the student body in the outreach of the University and thus provide an introduction and experience in the business world.

U.S./China Business Center

The mission of the U.S./China Business Center is to foster mutually beneficial trade relationships between the United States (with emphasis on Connecticut and the Northeast) and the People's Republic of China.

The Center develops programs to promote an understanding of doing business in China and the potential of exporting to the China market; assists US companies

and/or individuals in conducting business with China; and promotes Central Connecticut State University as a leading, innovative institution facilitating United States/China business relationships through its training resources.

Veterans Services

The Office of Veterans Services (Barrows 103) assists eligible students to obtain tuition waivers and educational assistance benefits from the Veterans Administration. Questions concerning benefits and eligibility should be directed to the veterans services coordinator (832-2838).

Myrna E. Garcia-Bowen, *Director*
 J.A. Tony Carberry, *Associate Director*
 Kevin Oliva, *Associate Director*
 Beth Amter, *Assistant Director*
 Douglas Benoit, *Assistant Director*
 Christopher Dukes, *Assistant Director*
 Patricia Gardner, *Assistant Director*
 Chris Gutierrez, *Assistant Director*
Phone: (860) 832-CCSU (2278)
E-mail: admissions@ccsu.edu
Web site: http://www.ccsu.edu

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. Undergraduate students are admitted to either full-time (12 hours or more) or part-time (11 hours or less) study, and applications are accepted for 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 \$40.00 application fee, and all required supporting credentials by the University's deadlines; for deadline information, consult: www.ccsu.edu/admission, admissions@ccsu.edu, or (860) 832-2278. 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 the Office of Admissions, the Enrollment Center, or Connecticut high schools or online at www.ccsu.edu.

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) CONN-TAC. 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 Office of Admissions 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 the Office of Admissions. Campus tours are also available; call our tour line at 832-2289 or e-mail us at tour@ccsu.edu. All correspondence and inquiries concerning undergraduate admission to the University, 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

First-year applicants should submit the completed Application for Undergraduate Admission to their secondary school guidance counselor or principal. The guidance counselor or principal should then attach the applicant's official high school record-to-date, along with an estimate of the applicant's rank in the graduating class, Scholastic Assessment Test I (SAT I) scores and letters of recommendation, and submit the application packet to the Office of Admissions. Hand-carried or student copies of credentials are not accepted as official. Alien residents must 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) — courses 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

in the judgement of the Director of Recruitment and Admissions there is strong evidence that they have the potential to complete a degree program or if they meet other established criteria as authorized by the University President under authority delegated by the Board of Trustees of the Connecticut State University System. 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 SAT I. For some applicants, an interview with a representative of the Office of Admissions may be necessary.

The Scholastic Assessment 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 on 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) 771-7600; or on the Web at: www.collegeboard.com.** Applicants should have the test results sent from CEEB to the Office of Admissions. **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).

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 3 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.

Special Students

Academically qualified students with special needs are encouraged to apply to the University early. Applicants seeking admission to the fall term should submit applications and supporting credentials by April 1. Applicants for the spring term should submit applications and supporting credentials by November 1.

Students with special needs are advised to register for the SAT under the program entitled "SAT Services for Students with Disabilities." Information pertaining to this program may be obtained by contacting: SAT Services for Students with Disabilities, The College Board, P.O. Box 6226, Princeton, New Jersey 08541-6226. Phone: 609-771-7137; TTY: 609-882-4118; fax: 609-771-7944; e-mail: sat.ssd@ets.org.

Upon acceptance, students with special needs requesting accommodation under ADA/504 must submit relevant documentation to substantiate their disability directly to the Special Student Services Office. Students with specific learning disabilities and attention deficit disorders need to submit psycho-educational evaluations directly to the Special Student Services Office.

For additional information, contact Dr. George Tenney, director of Special Student Services (Willard Hall, Room 100) at 832-1955 or 832-1957.

Courses for Qualified High School Students

When space is available, 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 (832-2255).

Transfer Student Admissions

Transfer students should send applications directly to the Office of Admissions. A student wishing to transfer to Central Connecticut State from another institution of higher learning must complete an application for admission and have **official** transcripts sent directly from each high school and 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 credit may not be awarded at any time for course work not listed or not included on official transcripts provided as part of a completed application. Any applicant who has completed 12 or more credits (not including

remedial course work) at a regionally accredited post secondary institution will be considered for admission as a transfer student.

Transfer students who have earned a minimum of 12 credits (not including remedial course work) at regionally accredited post secondary institutions need not present SAT I scores. *To be considered* for transfer admissions, an applicant must have earned a minimum of 12 credits, not including remedial work, and have a cumulative college grade point average of 2.00 or higher for all course work attempted.

Connecticut Community Technical College Transfers

All graduates from transfer programs of the Community Technical Colleges of Connecticut who have earned an associate's degree with a minimum 2.00 GPA (cumulative grade point average) are admissible to Central Connecticut State University. Transfer credits will count toward degree requirements as determined by equivalency to CCSU courses. A minimum of two additional years of full-time study is required to complete a baccalaureate degree. Qualified students may also be admitted prior to conferral of the associate's degree.

Transfer applicants holding the associate's degree from the Board of State Academic Awards (Charter Oak 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

International students should complete the **Application for International Undergraduate Admission**, which may be obtained from the Office of Admissions. 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.

Applicants must submit official copies of their secondary and post-secondary educational records. If records are in a language other than English, 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, USA, 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 necessary information 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 George R. Muirhead Center for International Education is available to help international students while at CCSU. Contact the George R. Muirhead Center for International Education, Barnard Hall, Room 138 (832-2050), fax (860) 832-2047.

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

Transfer Credit Evaluation

The evaluation of official transcripts is done after a student has been accepted. 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 regionally 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 Office of Admissions. Please note, regardless of the number of credits transferred, a student must complete a minimum of 45 credits at CCSU in order to earn the University's bachelor's degree (see Academic Standards and Regulations: Residence Requirements for Degree). Students currently enrolled in another college should have their official final transcripts submitted to the Office of Admissions after their grades have been posted so that their evaluation can be updated. Failure to indicate completed coursework and to provide official transcript thereof may result in CCSU refusal to award transfer credit. 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 a course to transfer. For more information on NAFSA recommended agencies, contact the Office of Admissions.

Students who are seeking admission to the Professional Program in Education (B.S. or Post-Baccalaureate teacher certification) should have as part of their admission file an evaluation of their foreign credentials by one of the following agencies:

Center for Educational Documentation
P.O. Box 326
Boston, MA 02130
Phone: 617-522-4738
(Course-by-course evaluation fee: \$90)

Educational Credential Evaluators, Inc.
P.O. Box 92970
Milwaukee, WI 53202-0970
Phone: 414-289-3400
(Course-by-course evaluation fee: \$125)

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 when seeking

readmission to the University. A Reactivation Request form may be obtained from the Office of Admissions or the Enrollment Center or online at www.ccsu.edu. The student must be in good academic standing at CCSU, as outlined in this catalog, or the student must have been granted **reinstatement on probation** by the dean of the school the student is attempting to re-enter. **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.** Normally a student must wait at least one semester before being considered for reinstatement.

Students who re-enter to complete a degree after a two-or-more year absence must fulfill the requirements of the General Education program that were in place at the time of their original matriculation unless they file a General Education Program Change Form requesting to follow the requirements for the General Education Program that are in effect on the date of re-entry. On re-entry, all students should consult with an advisor regarding this choice. Advisor assignments, as well as General Education Program Change Forms, are available through the appropriate Dean's Office and the Advising Center.

For requirements concerning a previously declared major or minor, a similar choice may be available except for requirements and curriculum changes mandated by outside accrediting and certifying agencies and additional course work required by the department or area offering the major or minor as evidence of current knowledge of the discipline. Re-entering students should consult with the department chair or a designated advisor within their major to discuss such choices and changes.

Fresh Start Policy

At the discretion of the Vice President for Academic Affairs or designee, a student whose college career has been interrupted three years or more may be considered for a "**Fresh Start.**" Under this option, the Office of 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- or part-time study after a long interval should consult the Office of Admissions.

Guidelines for the Fresh Start Program are:

- At least three academic years shall have intervened between the exit from and re-entry to CCSU.
- The student shall not have attempted more than 60 credits at CCSU.
- The student's record will be treated like those of a transfer student.
- During the first semester back at CCSU, the student shall be restricted to 16 credits or less.
- Graduation requirements shall be those listed in the catalog at the time of re-entry.
- The option can be used only once.

Veterans/Reservists/National Guard

Upon acceptance to Central Connecticut State University, veterans should register with the Office of Veterans Services to apply for V.A. educational benefits. The Coordinator is located in Barrows Hall, Room 103 (832-2838). Eligibility for educational benefits lasts 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 the tuition waiver. National Guard members apply for the tuition waiver through their Guard unit.

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 matriculated 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 Service one week prior to registration at the University. **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.** The health form is available in the University Health Service, Marcus White Annex (832-1925).

ENROLLMENT CENTER — CONTINUING EDUCATION AND SUMMER AND WINTER SESSION

Peggy Schuberth, *Director of Continuing Education and the Enrollment Center*
Rita Brann, *Associate Director*
Drina Lynch, *Associate Director*
Phone: (860) 832-2255

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 hours of operation are Monday through Thursday, 8 a.m. to 6 p.m.; Friday, 8 a.m. to 4 p.m. and Saturday morning, during the academic year, 7:45 a.m. to 12 noon.

Part-time Matriculant Program

Application for undergraduate part-time degree study is made in the Office of Admissions, Davidson Hall (832-2278). Students who choose to undertake or to complete an undergraduate or graduate degree on a part-time basis register for courses through 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. The Continuing Education bulletin and/or registration booklet provide all the details and fees.

Persons having a high school diploma or an equivalency diploma may earn college credit by registering in university courses through the Enrollment Center/Office of Continuing Education. Others may enroll, for no credit, as auditors.

Course Load and Credits. Part-time undergraduate students may register for up to a maximum of 11 credits.

To maintain their status, PTMs must register for classes in at least one of the regular academic semesters each year.

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 advisor in the Advising Center (832-1615) before registration. Undergraduate part-time matriculants are assigned an advisor in their major department.

The School of Graduate Studies. Information about graduate courses or master's and other advanced programs may be obtained from the Graduate Catalog or from Graduate Admissions (832-2350) or the Office of Graduate Studies (832-2363).

Summer and Winter Session

All CCSU students receive a special Registration Bulletin listing Summer and Winter Session courses. Registration takes place at the Enrollment Center/Office of Continuing Education. Summer and Winter Session courses allow students to accelerate their programs, make up work or take advantage of special offerings.

Summer Session. During the summer, Central Connecticut State University operates two five-week sessions, one eight-week session and a three-week post-session. 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 beginning of the academic year, 2) students from other colleges, 3) Central Connecticut State 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.

Residence accommodations and meals are available. Commuting students may arrange for lunch and/or dinner at the University. The University Library, the Student Center and other facilities are available.

The maximum course load is seven credits during each five-week summer session and four credits during the post-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. Over 100 credit courses are offered, allowing students to accelerate their college work. The maximum course load is four credits.

EXPENSES

Bursar's Office
Phone: (860) 832-2010

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

Tuition and required fees per semester for full-time undergraduate students attending CCSU are:

	CT Resident	Non- Resident
Fees		
Tuition	\$1,324	\$4,285
General	823	823
State University	366	899
Student Activity Information	70	70
Technology	109	109
Total	\$2,692	\$6,186

A Sickness Insurance Fee of \$209 is billed to all students in the fall semester, and \$209 in the spring semester. Those who already have adequate insurance may complete a waiver through the Bursar's Web site at www.bursar.ccsu.edu.

Special fees are charged while participating in the Cooperative Education Program (\$200/semester), Applied Music (\$300 ½ hour, \$400/1 hour), Orientation Program (\$75) and specific Design courses (\$65 Design Lab Fee).

Payment of Tuition and Fees

All students when first accepted for admission or re-admitted to Central Connecticut State University are assessed a non-refundable \$150 Confirmation Deposit. The balance of tuition and fees is due July 15 for the fall and December 15 for the spring.

Room and Meals

A non-refundable \$200 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 is due July 15 and December 15. Room costs are \$2,288 for James Hall, \$2,856 for Vance Hall and \$1,913 for all others.

Students assigned to residence halls following those due dates will be contacted. 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 Meal Plans. The Meal Plan Fee is due when room balances are paid. Currently there are

five meal plans ranging in price from \$1,375–\$1,545 per semester. Students cancelling their room reservation within the four weeks prior to the start of classes will be subject to a cancellation charge.

Fee Schedule and Refund Policy

Full-time students contemplating withdrawal from the University must complete a formal application with the Registrar (Davidson Hall 117). All applicable refunds are automatic upon formal withdrawal from the University.

Part-time students dropping a course must inform the Continuing Education Office in writing at the time of withdrawal. Withdrawal forms are available in the Enrollment Center. Failure to officially withdraw will result in an automatic "F" for the course.

Students (part-time and full-time) withdrawing from the University who are recipients of Title IV Student Financial Assistance (Federal Stafford Loans, Federal PLUS Loan, Federal Perkins Loan, Federal Pell Grant, Federal SEOG) are affected by a different refund schedule than outlined below. A complete text of the Title IV refund policy is available in the Financial Aid Office.

NEW STUDENTS (first-time and full-time) AND RETURNING STUDENTS (full-time) — REFUND POLICY FOR STUDENTS NOT RECEIVING TITLE IV STUDENT FINANCIAL ASSISTANCE

To obtain a 60% or 40% refund, applicable charges must have been previously paid in full. Non-refundables will be excluded.

Tuition and Fees

- Upon withdrawal from the University, up to and including the first day of classes, 100% of the amount paid will be refunded.
- 60% of the balance will be refunded 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, \$200

- Non-refundable

Housing Fee — Less Deposit (applies to students who withdraw from University)

- Upon withdrawal from the University, up to and including the first day of classes, 100% of the balance paid less the housing deposit will be refunded;
- 60% of the balance will be refunded 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 Fee — Less Deposit (applies to students who remain enrolled but withdraw from university housing)

- No refunds will be made after the beginning of classes.
- Notwithstanding this policy, a student may receive a 100% refund, up to and including the first day of classes, if room occupancy is at 100%.
- 60% of the balance will be refunded during the first two weeks of classes if room occupancy is at 100%.
- 40% of the balance during the third and fourth weeks of classes if room occupancy is at 100%.
- No refund will be made after the fourth week.

Housing Cancellation Fee — Less Housing Deposit

- Upon withdrawal from a residence hall three to four weeks before classes begin, a 10% housing cancellation fee, based upon the housing fee after deducting the housing deposit, will be assessed.
- During the first and second weeks prior to the commencement of classes, a 20% housing cancellation fee, based upon the housing fee after deducting the housing deposit, will be assessed.
- No refund will be made after the beginning of classes.

Meal Plan Fee

- Refundable, on a daily prorated basis, upon withdrawal from university housing or the University.

ALL PART-TIME STUDENTS AND SPECIAL SESSION STUDENTS (Summer and Winter) — REFUND POLICY FOR STUDENTS NOT RECEIVING TITLE IV STUDENT FINANCIAL ASSISTANCE

To obtain a 50% refund, applicable charges must have been previously paid in full. Non-refundables will be excluded.

Registration Fee

- Non-refundable

Course Fees

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 in fall and spring:

- 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.

For courses that meet other than the fall, spring, and summer semesters, refund policies in Continuing Education will be adjusted to the length of the individual academic program. These refund policies will be published in the registration bulletin.

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.

Non-Credit Courses:

- These refund policies will be published with registration materials.

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

Note: All refunds will be made automatically upon formal withdrawal from the University.

Refunds of Tuition and Fees Under Unusual Circumstances

Under circumstances beyond the control of the student or in cases where attendance has been denied by the University, the University President may authorize the refunding of fees otherwise designated as non-refundable.

Non-Refundable Fees

For all students, the application fee, admission deposit, registration fee, 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 a University Meal Plan at the same rate as for on-campus students.

Late Fee

A late fee of \$50 is assessed a student paying tuition/fees after the due date.

Returned Checks

A service charge of \$50 is assessed for a check returned for any reason. The University will not accept personal checks presented in the future by persons who have previously submitted non-negotiable checks.

Foreign Currency Payments

Central Connecticut State University settles all accounts in United States dollars, and does not assume any liability for losses that may result from foreign exchange rate differences under any circumstances. Central Connecticut State University's liability in the event of an error to a student's account is limited to the correction of the error in United States dollars.

Certificate of Residence

Tuition and fees are determined 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, students who have been classified as "out-of-state" when first admitted should obtain a Residency Reclassification Affidavit from the Registrar in Davidson Hall, Room 117, and return it to that office with all appropriate supporting documentation.

Unpaid Obligations

The Bursar will cause appropriate administrative action which may include the following measures being imposed on individuals who have unpaid financial obligations to the University:

- a. withholding of University services, course registration, 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

CENTRAL Payment Plan (CPP)

The CENTRAL Payment Plan is an alternative to the standard semester payment of tuition, fees, room and meals. This plan is available to full-time students only. For the parent or student who finds it more convenient to make installment payments, the CPP is the solution. The CPP is a payment plan that allows all CCSU charges to be paid in three installments per semester. Fall semester installment payments are made monthly, beginning July 15 and ending on September 15. Spring semester installment payments begin December 15 and end on February 15.

There is an enrollment fee for this service but no interest charge. The fee is \$35 per semester. Students desiring to be enrolled in the CPP may complete the Enrollment Form found on their billing statement.

All questions concerning the CENTRAL Payment Plan (CPP) should be directed to the Bursar's Office-CPP Customer Service at 832-2220, or visit www.bursar.ccsu.edu. Office hours are weekdays 8:00 a.m. to 5:00 p.m.; after hours or weekends, please leave a phone message.

Campus Debit Card (Blue Chip) Accounts

All students have the opportunity to establish a campus debit card account, called a "Blue Chip" account. This account is associated with the student's campus identification card, the Blue Chip Card. Blue Chip Cards are mandatory for all students, faculty, and staff. The Card Office manages the photo ID system and Blue Chip accounts. Cardholders can use funds on deposit to make purchases on campus in various cafeterias (including Memorial Hall dining and Student Center Food Court) and the campus Barnes and Noble Bookstore. Purchases may be made

using the Blue Chip Card in all campus vending machines, including campus copiers and residence hall laundry machines, and at many off-campus locations. Information on off-campus locations is available at the Card Office or on the Card Office Web site, www.cardoffice.ccsu.edu. Blue Chip deposits can be made at the Card Office and Cashier's Office by cash, check, and credit card. Credit card transactions can also be made over the phone by calling either the Card Office (832-2140) or Cashier's Office (832-2020), and through the Card Office Web site at www.cardoffice.ccsu.edu. Cash can also be deposited instantly at five Card Value Centers, located at the Library, Microcomputer Lab, Student Center, Gallaudet Hall, and the Police Station, which is open 24 hours.

The University has an agreement with CenConn Credit Union to provide bank accounts associated with the Blue Chip card. This allows students to have a regular bank account as well as the campus debit card account attached to the Blue Chip Card. Students will also have regular banking privileges associated with the Blue Chip Card. Students receiving financial aid may choose to have excess aid electronically deposited to a CenConn bank account or to their Blue Chip account. In addition, students working on campus may have their paychecks electronically deposited to their bank account. Students may use the Blue Chip Card as an ATM card with their CenConn Credit Union accounts. The Card Office and CenConn Credit Union are located in the campus Barnes and Noble Bookstore, at the Student Center. During the semester, Card Office hours are Monday through Thursday from 9:00 a.m. to 5:00 p.m. and Friday from 9:00 a.m. to 4:00 p.m., with extended hours during the first month of school. After Card Office hours, lost cards should be reported to the Police Department (832-2375); a temporary ID will be issued and a "hold" will be placed to deactivate the account.

Financial Aid Book Advances

Some students receiving financial aid may have difficulty purchasing books at the start of the semester since financial aid funds are normally distributed after the first three weeks of classes. Full-time students receiving financial aid, where the amount of the financial aid exceeds all CCSU charges, are eligible to receive a book advance against this excess aid amount beginning 10 days prior to the first day of classes. Book Advance Request forms are available at the Bursar's Office. Such advances are deposited

into the student's Blue Chip debit account, and the student's Blue Chip Card may be used to make book (CCSU Barnes & Noble Bookstore) or other incidental purchases on campus. The only distribution method for book advances is an electronic deposit to the Blue Chip account. No cash or checks are distributed as advances. Questions concerning book advances should be directed to the Bursar's Office, Room 101, Davidson Hall, phone 832-2010.

Persons 62 or Older

The payment of Tuition and State University Fee is waived for any Connecticut resident presenting evidence of being 62 years of age or older who has been accepted for full-time admission and is enrolled in a degree-granting program. The Course Fee is waived for any Connecticut resident presenting evidence of being 62 years of age or older who registers part-time through the Enrollment Center/Office of Continuing Education. Special registration dates apply. Consult the Continuing Education Semester Bulletin.

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 in their home state at the Connecticut resident tuition and state university fee rate plus 50 percent. Other fees are also required. 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; phone: (617) 357-9620; Web site: www.nebhe.org — or contact the Office of Recruitment and Admissions, Davidson Hall, Room 115.

Veterans/Reservists/National Guard

Educational assistance is available for veterans and members of the National Guard and 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 include the Vietnam Era (12/22/61 – 7/1/75), Korean Hostilities (6/27/50 – 1/31/55), World War II (12/7/41 – 12/31/46) or Operation Desert Shield and Operation Desert Storm (8/2/90 – 6/30/94).

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) or Invasion of Panama (12/20/89 – 1/31/90).

Veterans who served at least 90 days on active duty *in the demilitarized zone* in South Korea (after 9/1/55), in Somalia (after 12/2/92) or in Bosnia (after 12/20/95) are also eligible for the Connecticut tuition waiver. Documentation displaying proof of service *in these locations* is required.

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, Barrows Hall, Room 103 (832-2838).

FINANCIAL AID SERVICES

Richard Bishop, *Director*
 Val Marshall, *Associate Director*
 Phone: (860) 832-2200
 Fax: (860) 832-1105
 Davidson Hall, Room 107
 www.ccsu.edu/finaid

Financial Aid Process

Financial aid is assistance to students who are unable to meet educational expenses entirely with their own resources.

CCSU provides a variety of financial aid assistance from federal, state, and institutional resources.

BASIC ELIGIBILITY CRITERIA

To be eligible for financial aid a student must:

- have a high school diploma or its recognized equivalent
- be a U.S. citizen, permanent resident, or other eligible noncitizen
- be matriculated (formally accepted by the Office of Admissions)
- be making satisfactory academic progress
- not be in default on a federal loan or owe a refund on a federal grant for any attendance at any institution

FINANCIAL AID APPLICATION PROCESS

To begin the application process for grants, loans, and work study employment, the student will need to complete a Free Application for Federal Student Aid (FAFSA) beginning as early as January 1 for the academic year beginning the next fall semester.

A student may go online to electronically file their FAFSA with the U.S. Department of Education at its Web site, www.FAFSA.ed.gov. For students who choose to file using a paper application, they may call (800) 433-3243 to request the forms be mailed to them.

Follow the tips listed when filing your FAFSA:

- Complete the entire application accurately, including all optional information. Omitting this information may cause delays in processing.
- List Central Connecticut State University as a college of choice. CCSU's federal code number is 001378.
- For students, parents, or guardians who have not filed their previous year's federal tax returns at the time they complete the FAFSA, enter estimates for the tax year requested.

- If filing a FAFSA for the first time, request a personal identification number (PIN) at www.pin.ed.gov. This will enable the student to access his/her FAFSA file to make corrections and file subsequent academic year requests. It is necessary to file a FAFSA for each academic year.

Incoming freshmen and transfer students are considered for financial aid only after their FAFSA application information has been released by the U.S. Dept. of Education to CCSU's Financial Aid Office, and they are formally admitted to the University.

Part-time students must be formally admitted to CCSU before the aid application will be reviewed. Eligibility will be determined after completed applications are received.

It is *not* necessary to be formally admitted to CCSU prior to completing the FAFSA filing.

NOTIFICATION OF AWARDS

Upon the completion of the FAFSA filing process and acceptance for admission to CCSU, the Financial Aid Office will generate an award letter outlining the types and amounts of aid offered. This notification indicates the most equitable offer based upon the information 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 is subject to changes in federal and state legislation and regulations.

Financial Aid Resources

Financial aid to students comes in three basic forms — grants and scholarships, employment, and loans.

GRANTS AND SCHOLARSHIPS

- **Federal Pell Grant** — 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 for a Pell Grant.
- **Connecticut State University Grants (CSUG) and Connecticut Aid for Public College Student Grant Program (CAPS)** — Eligibility is based on financial need. Amount is determined by Financial Aid Office.
- **Federal Supplemental Educational Opportunity Grant (FSEOG)** — Eligibility is based on exceptional

demonstrated 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.

For scholarship information and availability, refer to the section on Scholarships.

LOANS

Loans are available in two categories — federal direct and alternative. The following are federal direct loans.

- **Federal Direct Stafford Loan** — subsidized (need-based) and unsubsidized (non-need) loans with a variable interest rate not to exceed a maximum rate which is adjusted each July 1 for subsidized loans. Interest is applied six months after the student terminates college studies. For unsubsidized loans, interest is applied the day the loan is disbursed and the student is responsible for the interest accruing during their enrollment in school.
- **Federal Perkins Loan** — Available to undergraduate and graduate students who meet the financial need requirements. Interest rate is applied nine months after student terminates college studies. Priority is given to early applicants and award amount is dependent upon available funds allocated from federal sources.
- **Federal Direct PLUS Loan (parent loan)** — Parents of dependent students may 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 percent, adjusted each July 1. Parent may borrow cost of education budget amount *minus* other aid.
- **Additional Unsubsidized Federal Direct Stafford Loan** — Available to independent undergraduate students and dependent undergraduate students whose parents have been denied a PLUS loan. Not need based. Interest and repayment similar to Federal Direct Unsubsidized Stafford Loan.
- **Alternative Loans** — These are loans which the student or parent may apply for and receive based on credit worthiness from outside lending sources.

EMPLOYMENT

- **Federal Work Study Program (FWSP)** — Eligibility is based on financial need with priority given to early applicants. Aid may be cancelled 30 days into semester if student has not secured on-campus employment by that time. Payment is made directly to student every two weeks based upon number of hours worked and rate of pay.

Satisfactory Academic Progress Policy

Academic Progress is a requirement for all students receiving federal, state, or institutional aid. Specifically, financial aid recipients must meet a standard to maintain eligibility for financial aid. Students must be matriculated and must maintain that quality of academic performance required to remain a matriculated undergraduate or graduate student in the University.

Academic progress towards graduation is measured on a yearly basis. Measurement is conducted at the close of the spring semester. An academic year runs from the beginning of the fall semester to the end of the spring semester. Deficiency with the quantitative *and* qualitative Satisfactory Academic Progress Guidelines will result in the denial of financial assistance. Applicants denied financial assistance because of Inadequate Satisfactory Academic Progress will be granted the option of appealing their aid denial. Appeals must be based on "special or unusual circumstances."

STUDENT AID PROGRAMS AFFECTED

These guidelines apply to undergraduate and graduate students enrolled at Central Connecticut State University who have been awarded federal, state, and/or institutional aid. Student aid programs include the following:

- Federal Pell Grant (PELL)
- Federal Supplemental Educational Opportunity Grant (SEOG)
- Federal Work-Study Program (FWSP)
- Federal Perkins Loan (PERK)
- Federal Parent Loan (PLUS)
- Federal Direct PLUS Loan (PLUS)
- Connecticut State University Grant (CSUG)
- Connecticut Assistance for Public Colleges (CAPS)
- Federal Stafford Loan Program (subsidized and unsubsidized) (FSLP)
- Federal Direct Stafford Loan Program (subsidized and unsubsidized) (FDSL)
- FDCL

MAINTAINING SATISFACTORY ACADEMIC PROGRESS

To be eligible for *any* financial aid, you must complete the appropriate number of credits *each* for your student status, either full-time or part-time and must maintain a *minimum* cumulative grade-point average. In order to receive financial aid, you must make satisfactory progress towards a degree regardless of whether you have previously received aid.

Undergraduate Students GPA standards

19-56 credits	minimum GPA 1.60
57-58 credits	minimum GPA 1.80
59-71 credits	minimum GPA 1.90
72 credits or above	minimum GPA 2.00

Graduate Students GPA standards — minimum of a 3.00

ACADEMIC PROGRESS — CREDIT LEVEL EXPECTATION BY SEMESTER

Undergraduate students	Credits
full-time	minimum 12
three-quarter time	9-11
half-time	6-8
Graduate Students	
full-time	minimum 9
three-quarter time	7-8
half-time	6

For students with full-time and part-time semesters of enrollment, the part-time semesters will be pro-rated at the rate of 50 percent of the full-time standard. For example, with three full-time semesters and one half-time semester, a student should have achieved a minimum number of 42 degree credits.

All students are subject to federal, state, and University limits on the total number of semesters or terms of financial aid they may receive. This includes financial aid received at other academic institutions outside of Central Connecticut State University.

A student enrolled in an *undergraduate* four-year full-time program you may receive financial assistance for up to 10 semesters of full-time attendance or until the student is certified for graduation by the University, whichever comes first. Summer sessions are not counted in the cumulative enrollment.

Undergraduate part-time students taking more than 6 but less than 12 credits for all terms may receive financial assistance for up to 20 semesters of part-time attendance or until the student is certified for graduation, whichever comes first. Summer sessions are not counted in the cumulative enrollment.

Those enrolled in a designated five-year program may receive up to 12 semesters of federal, state, and institutional financial aid.

BOP students enrolled in a four-year program may receive up to 12 semesters of federal, state, and institutional financial aid.

Students enrolled in a *graduate* program full-time may receive financial assistance up to four semesters of full-time attendance or until the student is certified for graduation by the University, whichever comes first. Those enrolled in a *graduate* program part-time for all terms may receive financial assistance for up to eight semesters of part-time attendance or until the student is certified for graduation, whichever comes first.

SUCCESSFUL COMPLETION OF CREDITS

To successfully complete credit hours, a student must receive a grade of A, B, C, D, or P in a course. Failed courses or audited courses will not be counted. Repeated courses, for which completed credit hours were previously credited, are not considered successful completion of credit hours. Non-credit developmental courses recommended by the student's academic advisor shall count on a semester-hour equivalent basis determined by the University.

WITHDRAWALS AND CANCELLATIONS

Withdrawals after the first day of classes during the semester counts as a semester attended when determining overall semester count eligibility and credit hour count eligibility, unless the student does not attend any classes for the given semester and receives a 100% refund for all fees. Cancellation of registration on or before the first day of classes does not count as a semester attended when determining semester count or credit hour count eligibility. Administrative Cancellation will not count towards the overall semester or credit hour count eligibility.

DISQUALIFICATION AND REINSTATEMENT

CCSU notifies students not meeting Satisfactory Academic Progress after the spring semester grades have been posted. Students not meeting requirements fall into one of two categories and will receive notification.

PROBATIONARY LETTER

Students receiving a Probationary Letter are notified that they are not making Satisfactory Academic Progress towards the completion of the degree and are given *one academic year*

immediately following the SAP Probation to become compliant. If after the SAP probationary period the student is not making Satisfactory Academic Progress or has not graduated, the student will be ineligible to receive financial aid.

PROBATION

Probation occurs when a student fails to earn the minimum number of credits hours for the academic year by the end of the Spring Semester or does not have the appropriate GPA — 2.0 for undergraduates after two years; 3.0 for graduate students. A student may still receive financial aid at CCSU during one academic year probationary period. However, students are required to make up deficient hours or GPA by the end of the spring semester. The progress of those working toward that goal at CCSU will be automatically tracked by the financial aid computer system.

SUSPENSION

Students who fail to make up the deficient hours or GPA will be placed on financial aid suspension and will not be eligible for further financial aid at CCSU until the deficient hours have been completed. If unusual circumstances exist that prevented a student from completing the required number of hours, he or she may request a review of the suspension status.

TERMINATION

The numbers of hours for which a student may be funded are limited according to the specific degree being sought. Once the allowable maximum is reached, a student will be placed on financial aid termination and will be ineligible for additional federal student aid.

APPEAL PROCEDURES

Appeals forms will be available after the Spring Semester in Davidson Hall, Room 115.

Questions regarding procedures or awards should be directed to the Financial Aid Office, Central Connecticut State University, 1615 Stanley Street, New Britain, CT 06050, (860) 832-2200. For more information, visit www.ccsu.edu/finaid.

Scholarships

Honors Scholarships

The Honors Program has a limited number of full and half merit 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 academic excellence.

For more information on the Honors Program, refer to the Special Programs section of this catalog. For information on scholarships, please contact Dr. Kristine Larsen, director of the Honors Program, Copernicus Hall, Central Connecticut State University, 1615 Stanley Street, New Britain, CT 06050.

CCSU Foundation Scholarships

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

Alpha Phi Omega National Service Fraternity Scholarship — awarded to an undergraduate student who demonstrates a record of service to his or her community and school

Pauline M. Alt Teacher Education Scholarship — awarded to full-time undergraduates with grade point averages of 3.25 or better, with preference given to elementary education or international 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

Jack Arute Scholarship — awarded annually to an outstanding graduate from a New Britain area high school, i.e. New Britain High School (Contact Office of Recruitment and Admissions)

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 — awarded annually to varsity athletes on the softball team

Karen Beyard Scholarship — provides support for a full-time employee at CCSU in a bargaining unit that does not provide tuition waivers

Blake Scholarship Fund — awarded annually to members of varsity men's track and cross-country teams

Ruthe Boyea Scholarship — awarded by the Committee on the Concerns of Women, to a recipient showing promise of outstanding academic and career potential and support for the enhancement of women

Anna Bubser-Judd Trust Scholarship — granted annually to minority students from Hartford or West Hartford who graduate from approved high school programs (Contact Office of Admissions)

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

Business Education Graduate Award — given annually to an alumnus who has completed bachelor's degree requirements in Business Education at Central Connecticut State University

Frank D. Cannata Scholarship Fund — awarded to seniors with the highest cumulative grade point averages in accounting

CBA Construction Law Scholarship — awarded to incoming students with outstanding achievement in high school and on the SAT and to freshman with 15 semester hours of undergraduate credit @ CCSU, a GPA of 3.0 or higher and enrolled in the Construction Management or Civil Engineering Technology program

CCSU Accounting Society Scholarship — awarded to an accounting major who has earned a minimum of 72 credits and has displayed academic merit and club involvement, contingent on availability of funds (Contact Accounting Department)

CCSU Alumni Association Scholarship — provides support for the children and grandchildren of CCSU graduates

CCSU New Britain Chapter NAACP Clifford J. Willis, Sr., Scholarship — awarded to an incoming first-year freshman from Connecticut who is a member of the NAACP

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

Esther Murray Clarke Scholarship — given to a junior enrolled in the School of Education and Professional Studies' elementary education teacher preparation program

Class of 1940 Scholarship — awarded annually to a junior or senior in any teacher preparation program

Class of 1953 Scholarship Fund — awarded to junior-level students in education with minimum grade point averages of 3.00 and demonstrated records of community service

Class of 1971 Scholarship — established for children of members of the Class of 1971

CSEA — Chapter 31 — awarded annually to the children of CCSU faculty

CSI Scholarship, Hartford Chapter — support for incoming first-year students whose academic and career interests area of construction management or civil engineering technology

Michael D'Amico/Class of 1988 Scholarship Fund — for full-time matriculated CCSU students with leadership in student activities

M. DeLott Garber Scholarship Fund — available to juniors in the School of Education and Professional Studies

Ann C. Denault Scholarship — provides support for graduates from Crosby High School who have been accepted to the Professional Program for early childhood education

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

Educational Support Services Scholarship Fund — for students enrolled in the Educational Opportunity Program or the Connecticut Collegiate Awareness Program

Alexander J. Federowicz Scholarship — support for a Polish born, full-time, matriculated undergraduate student at CCSU

Friends of New Britain High School Football Scholarship — awarded to freshman students with 15 semester hours of credit @ CCSU and students must have participated in varsity football at New Britain High School

Dr. Helen Garabedian Scholarship — support for a student of Armenian decent in good academic standing

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

Norman Gerber Scholarship — awarded to an active member of the Central Connecticut State University intercollegiate golf team

Graduate Student Association Scholarship — awarded to matriculated graduate students who have completed at least 15 credits and earned a minimum cumulative GPA of 3.5 or higher and who demonstrate exemplary involvement in University and/or community service activities

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

Jay Thomas Gugerty Scholarship — given annually to Industrial Technology and Engineering Technology majors with preference to students majoring in electrical systems or power transmission

Paul Hochstim German Scholar Exchange — support for scholarly exchanges between German universities and 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

James-Hauser International Exchange — support student exchange opportunities with Northwest Normal University Teachers College, Cheongju University and Federal University Paraiba

Paul Jones Fund — awarded to matriculated students in the B.S.N. program

Richard L. Judd Scholarship — awarded to University students who have demonstrated exemplary involvement and leadership in student or community activities

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

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

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

Ruth Schlichting Kossyta Scholarship — awarded to undergraduate students accepted to the Professional Program who are preparing for careers in elementary or secondary school teaching

Abraham F. Kotkin Scholarship — awarded to an upper level student from New Britain who presents evidence of civic involvement and community service

Carl Krein Scholarship — awarded to students in athletic training

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 — awarded to an education major

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

Robert Lord Trust — awarded to students who have demonstrated exemplary involvement in campus and community service activities which enhance student life

Henry W. Majlinger Endowed Scholarship Fund — awarded to members of varsity football and baseball teams

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 or Plainville High Schools

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

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

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

Lincoln Mongillo Scholarship — awarded to junior or senior students in construction management or civil/construction engineering technology

George R. Muirhead Scholarship — assists students with academic exchanges in the United Kingdom

Yoko Niibo Scholarship — benefits the exchange of students between Central Connecticut State University and Japanese or Korean universities

OKAY Industries Scholarship — awarded annually to a junior- or senior-level student in the mechanical engineering program with a cumulative grade point average of 3.0 or higher

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

W. Terry Owens Fund — awarded to a graduating senior from an accredited high school in New Britain, Berlin or Kensington who has been accepted as a full-time, matriculated, undergraduate student at CCSU

Pettinico Family Scholarship — merit based for a graduating senior from Wolcott High School in Wolcott, CT.

Emily Pirog Scholarship — awarded annually to an undergraduate student in athletic training

Polish Invitational Golf Committee Scholarship — support for a Polish born, full-time, matriculated undergraduate student at CCSU

Polish Summer School Scholarship — awarded to full-time matriculated, undergraduate students at CCSU who are interested in participating in a summer study abroad program in Poland

Brenda A. Reilly Scholarship — support for an active member of the women's basketball or softball teams

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

David Ross Scholarship — awarded to the undergraduate student(s) named as the Outstanding Volunteer of the Year at the Student Organizations Recognition Program

The David T. Rybczyk Scholarship — support for a graduate of Plainville High School who participated in varsity athletics, accepted at CCSU as a first-year, full-time student

A. Todd Sagraves Scholarship — awarded to State Certified Marketing Education Teacher Coordinators and Distributive Education Clubs of America ("DECA") Advisors who are graduates of Central Connecticut State University

SGA Scholarship — awarded to matriculated undergraduate students who have demonstrated exemplary involvement and leadership in the University community and who have earned a minimum cumulative GPA of 2.50 or higher

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

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

Thaddeus Torp Scholarship — awarded to students who have made an outstanding contribution to the Department of Theatre

Virginia Wicks Vidich Scholarship — supports students who have the underlying character and ability to be successful but whose personal, economic or social circumstances have put them at risk

Jerome Vigdor 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 or history

Elizabeth Walden Scholarship — awarded to active participants in a University select choral ensemble

H. G. Peter Wallach Scholarship — awarded to an undergraduate with 30 or more credits who has demonstrated an understanding of current issues in civil liberties and constitutional law, or who will be engaging in study in Germany

Herbert D. Welte Scholarship Fund — established for students in international studies who need financial assistance (Contact the George R. Muirhead Center for International Education)

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

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

WKND Scholarship Initiative — Book scholarships to first-time, first year, full-time undergraduates from an accredited high school in Hartford, East Hartford, Bloomfield and Windsor

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

John Zubretsky Scholarship — awarded to students enrolled in an academic program leading to public school science teacher certification

STUDENT INFORMATION

Cancellation of Classes or Final Examinations Due to Inclement Weather

At the discretion of the University, classes may be cancelled or delayed because of inclement weather conditions. The most accurate cancellation and delay information for Central Connecticut State University will be made available on the Snow Phone: 860-832-3333 and on the Web at www.ccsu.edu/cancellation. These services will be updated twice daily: 6 a.m. for the day schedule and 2 p.m. for the evening schedule.

If the University is forced to close or delay during the final examination period because of storm conditions, this information will also be made available on the Snow Phone and the Web. These services will also carry information from the Continuing Education Office once the affected exams are rescheduled.

The University will also notify the broadcast media of cancellations or delays affecting regular classes or exams. WTIC-AM 1080 is the principal radio outlet. WFSB-TV 3, WTNH-TV 8, and WVIT-TV 30 are the principal television outlets. Since radio and television stations are geared heavily toward broadcasting delay and closing announcements for public elementary and secondary schools, we recommend using the above services for the most accurate information about CCSU's closings or delays.

Childcare

The Early Learning Program, Inc., a state-licensed child care facility, is available adjacent to campus at 1285 East Street for toilet-trained children from ages 3–5. The program operates during the CCSU academic year (September through June), with a summer session pending enrollment. Hours of operation are Monday through Friday, 7:30 a.m. to 5 p.m. Attendance options include nursery school, part-time care and full-time care. For information, call Catherine Pezze at 832-3760.

Identification Cards

All students are required to obtain an identification card, called the Blue Chip Card, after payment of tuition and fees. The Blue Chip Card is required to take books out from Burritt Library and to access the Microcomputer Lab. The Blue Chip Card can be used as a debit card to make purchases from vending machines and public-

use copiers, as well as at dining locations in the Student Center and Memorial Hall. There are many off-campus locations that accept the Blue Chip card; additional information is available at the Card Office or on the Card Office Web site, www.cardoffice.ccsu.edu. Only the Blue Chip Card is accepted for copying, printing, and laundry services on-campus. In order to use the card as a debit card, money must first be deposited on account. The Card Office and Cashier's Office accept cash, check, and credit card. Credit card transactions can also be made over the phone by calling either the Card Office (832-2140) or Cashier's Office (832-2020), as well as through the Card Office Web site at www.cardoffice.ccsu.edu. Cash can also be deposited instantly at five Card Value Centers, located at the Library, Microcomputer Lab, Student Center, Gallaudet Hall, and the Police Station, which is open 24 hours. The Card Office is located in the campus Barnes and Noble Bookstore, at the Student Center. During the semester, Card Office hours are Monday through Thursday from 9:00 a.m. to 5:00 p.m. and Friday from 9:00 a.m. to 4:00 p.m., with extended hours during the first month of school. After Card Office hours, lost cards should be reported to the Police Department (832-2375); a temporary ID will be issued and a "hold" will be placed to deactivate the account.

Parking

All full- and part-time students must obtain decals for student parking by presenting their Blue Chip cards at the University Police or Card Office. Students may park in any campus lot or parking garage except those designated for administration, faculty or staff. Vehicles without decals or improperly parked vehicles may be ticketed or towed at the owner's expense. You are urged to learn and follow the campus parking regulations. Additional information regarding parking regulations is available on the University Police Web page (<http://www.ccsu.edu/Police/>).

Permission for Photos of Students

Several offices of the University, principally those of Institutional Advancement, provide information to news organizations about CCSU's students' accomplishments and activities while they are at the University and at the time of graduation. Additionally,

CCSU supplies photographs and other visual images of students and corollary text in response to requests from news organizations. As a regular practice, photographs of students, faculty, staff, and visitors to campus are used in publications produced by the University for recruitment and general information. Any student who does not wish to appear in any photos used for these purposes must notify the Office of Institutional Advancement immediately upon matriculation. It is, however, not possible to practice these restraints with respect to the use of photography (where groups of students appear) of scenes, events, or classes in session.

Pet Policy

With the exception of animals used to aid persons with disabilities, animals used in University laboratories and fish in residence hall rooms, animals are prohibited in campus buildings.

Public Safety

Campus Security Report: Central Connecticut State University is proud of its efforts to maintain a safe and secure environment for students, employees, and visitors. CCSU is, therefore, pleased to make available its annual "security report." This report is a requirement of the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, a federal law requiring colleges and universities to disclose information about crime on and around their campuses. The report outlines the role and authority of the University Police Department and institutional policies concerning the security of the campus, as well as policies concerning alcohol and drug use, crime prevention, the reporting of crimes, sexual assault, and other matters. It also cites statistics for the previous three years concerning reported crimes that occurred on campus, in certain off-campus buildings owned or controlled by CCSU, and on public property within, or immediately adjacent to and accessible from, the campus. This report may be viewed at <http://www.ccsu.edu/police/>. Or send a written request to: Central Connecticut State University, Police Department, P.O. Box 4010, New Britain, CT 06050-4010.

Police: CCSU has maintained its own police department since 1976. In 1999 the CCSU Police Department received international recognition through its accreditation by the Commission on Accreditation for

Law Enforcement Agencies. The CCSU Police Department was the first university police department in Connecticut — and the second in New England — to receive this endorsement.

With the same statutory mandate and authority conferred upon municipal police departments, the approximately 25 officers of the University Police Department provide the campus community with a full range of protective and investigative police services around the clock. The Police Department is also a member of a regional mutual aid compact that ensures the availability of additional public safety resources to meet unusual needs.

State-of-the-art emergency telephones, strategically located throughout the campus, are connected to the dispatch center at the headquarters of the CCSU Police Department. This center not only dispatches police officers but also monitors the Universities growing system of security technology, including electronic access control systems and CCTV to monitor areas of the campus. Additionally, E-911 service is now available through the City of New Britain Public Safety Dispatch Center. While routing police calls to the University Police, the dispatch center can direct fire and emergency medical services to any emergency on campus.

Escorts: Police officers or other employees of the CCSU Police Department provide either a ride or a walking escort for students.

Residence Life

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.

The Office of Residence Life (832-1660), in Mildred Barrows Hall, assists students in University housing matters. Limited information on off-campus apartments is also available. The Living Guide brochure details residence hall policies.

Student Government

The full-time undergraduate students of CCSU make up the membership of the Student Government Association (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 the student body. It promotes student participation in various projects, committees and organizations at the university and at state and national levels that help shape the university and education in Connecticut. The SGA Senate allocates the SGA portion of the Student Activity Fee which is paid by all full-time undergraduate students and used to promote and fund student clubs, activities, services and issues which benefit students and their educational opportunities.

The SGA office is located in the Student Center (832-3740).

Student Organizations

Clubs and organizations provide students with opportunities for social interaction, recreation, leadership training and enhancement of academic interests. For most students, involvement in organizations is an important aspect of their education. Information about clubs can be obtained at the Club Drive or through assigned student organization mailboxes on the first floor of the Student Center.

Participation in a club or organization can be included in a student's personal transcript through the Experiential Transcript Program. For more information on this or other aspects of student organizations contact the Department of Student Activities/Leadership Development or Advising Services. The following is a list of organizations.

Academic and Special Interest

Accounting Society, African Studies Association, American Marketing Association, Anthropology Club, Archaeology Club, Art Club (Le Salon), Athletic Trainers Association, Best Buddies, Biology Club, Caducean Club, Chemistry Club, College Republicans, Communication Club, Economics Club, Education Club, Finance Association, Geography Club, Habitat for Humanity, History Club, Management Information Systems (MIS) Club, Music Educators National Conference, Philosophy Club, Photography Club, Physical Education and Health Fitness Club, Physics and Earth Sciences Club, Progressive Students Alliance, Psychology Club, Social Work Club, Sociology Club, Solar Electric Research Team, Veterans Appreciation Organization, Women Involved Now (WIN)

Fraternities and Sororities

Kappa Alpha Psi Fraternity, Nu Psi Chapter; Lambda Theta Phi Fraternity; Phi Delta Theta Fraternity; Phi Sigma Sigma Sorority

Governmental

Central Activities Network, Graduate Student Association, Inter-Greek Council, Inter-Residence Council, Media Board, Senior Week Committee, Student Government Association, Student Union Board of Governors

Honors and Professional

Alpha Lambda Delta Honor Society; Alpha Mu Gamma, Foreign Language*; American Choral Directors Association; American Society of Civil Engineers; American Society of Safety Engineers; Associated General Contractors; Beta Beta Beta, Biological Sciences*; Delta Mu Delta, Business*; Epsilon Pi Tau, Ind. Arts & Voc-Ind. Ed.*; Eta Kappa Nu, Engineering*; Gamma Theta Upsilon, Geography*; Golden Key Honor Society; Kappa Delta Pi, Education*; Omicron Delta Epsilon, Economics*; Phi Alpha Theta, History*; Pi Sigma Alpha, Political Science*; Psi Chi, Psychology*; Society of Manufacturing Engineers; Technology Education Collegiate Association; Upsilon Pi Epsilon, Computer Science*

International, Cultural and Language

Black Student Union, Chinese Student Association, French Club (*Le Cercle Français*), German Cultural Club, International Relations Club, Italian American Student Organization (*Il Circolo Italiano*), Latin American Student Organization, Muslim Student Association, NAACP — CCSU Chapter, Polish Club, PRIDE (gay, lesbian, bisexual student organization), Spanish Club, United Caribbean Club, Vietnamese Student Organization, Yaaron Association

Media and Publications

Helix (literary magazine), Media Board, The Recorder, WFCS FM-107.7 Radio

Performing

CCSU Steppas, Cheerleaders, COLADA (Central Organization of Latin American Dance Awareness), DanCentral, Ebony Choral Ensemble, Pep Band, Pep Squad, Theatre Unlimited

Religious

Christian Students at Central, The Circle (Wiccan group), Hillel Jewish Student Organization, Revival, Newman Club, Upside Down Club

Sports and Recreation

Central Car Club, Central Disc Club, Chess Club, Crew Club, Flying Club, Gaming Club, Hang Gliding Club, Ice Hockey Club, In-line Hockey Club, Karate Club, Lacrosse Club, Lady Hooligans Women's Rugby Club, Men's Rugby Club, Men's Soccer Club, Outing Club, Paintball Club, Screamin Demons, SCUBA Club, Ski Club, Tae Kwon Do Club, Track and Running Athletic Club (TRAC)

*These organizations are adjunct to University departments.

University Health Service

The University Health Service (UHS) provides medical services by appointment for the maintenance of health and the evaluation and treatment of illnesses and injuries to all students.

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

- Evaluation and treatment of illnesses and injuries, including referrals to appropriate specialty consultants as needed
- Certain laboratory tests for blood sugar or urine evaluations
- Evaluation of sexually transmitted diseases
- A health education resource center for information on medical issues and concerns

Treatments *requiring a nominal fee* include:

- Additional laboratory and diagnostic evaluations
- Pregnancy testing and referral
- Immunizations required for school, employment or travel
- Low cost prescriptions — in-house pharmacy for medications ordered by the physician

Full-time students are required to submit a completed health form (medical history, physical exam and up-to-date immunization record) one week prior to registration at the University. Part-time students are required by the University to have up-to-date immunization records for measles and rubella consistent with State of Connecticut Department of Health Service guidelines. 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. The health form is available in the Uni-

versity Health Service, Marcus White Annex (832-1925).

Students do not need to have elected the University insurance plan to be seen as a patient in the University Health Service.

The University Health Service is open Monday–Friday from 9:30 a.m.–3:45 p.m. (Closed daily from 12–1 p.m.) These hours are subject to change. For more information, visit www.ccsu.edu/healthservice.

Health Insurance

Health insurance coverage (accident and sickness) is mandatory for all full-time students. Students can purchase the sickness insurance plan through the University or elect alternative coverage through an outside carrier. The University provides 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 insurance carrier unless there is no other insurance held by the student. A combined sickness/accident policy is available for part-time students, as well as their dependents, through the Office of Continuing Education. For information regarding the details of the policy please check the web site at www.student-health-insurance.com.

Medical Excuse Policy

The University Health Service will forward a medical excuse to the Office of Student Affairs only in those cases in which a student was seen in UHS and the medical recovery or contagiousness of the patient/student warrants an absence from classes.

Those students who are out of class for more than 5 days and who have not been seen as a patient in the University Health Service for the evaluation of the illness should direct the notification of their absence from their physician to the Office of Student Affairs. The verification of their absence will be relayed to the appropriate professors.

Voter Registration

Regardless of which town in Connecticut is the place of residence, voter registration can be done on campus. Students can register to vote in the Student Affairs Office, located in Davidson Hall, Room 103. Students with special needs may register as voters at the Special Student Services Office in Willard, Room 100. All students are urged to take advantage of this convenient service and exercise their rights and duties as citizens by becoming registered voters.

ACADEMIC STANDARDS AND REGULATIONS

Susan Petrosino, Registrar
 To be announced, Associate Registrar
 Maria Alvarez, Assistant Registrar
 Mariette Gimmartino, Assistant Registrar
for Information Management
 Linda Thompson, Assistant Registrar
 Anita Sparrow, Degree Auditor
 Phone: (860) 832-2236

Typical Program

A typical study program for a Central Connecticut State University student in good standing is considered to be 15 to 17 credits of academic work per semester, 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 for student's with documented disabilities.

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	0–25 credits
Sophomore	26–53 credits
Junior	54–85 credits
Senior	86+ credits

Grading System

Central Connecticut State University 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 incomplete (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. A grade of NR (not recorded by instructor) will be entered if grades are not submitted in a timely manner. **For undergraduate students, an INC or an NR 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 or an NR within this time limit rests with the student.**

Grade-Point Average—For computing grade-point average, grades are evaluated as follows for each semester hour of credit:

Grade	Quality Points	Grade	Quality Points
A	4.0	C	2.0
A-	3.7	C-	1.7
B+	3.3	D+	1.3
B	3.0	D	1.0
B-	2.7	D-	0.7
C+	2.3	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; a 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 Policy — All students are expected to maintain a cumulative GPA of 2.00 or higher to be in Good Standing. All students who fall below a 2.00 will receive notification of either an academic warning or pending dismissal from the Registrar's Office.

Academic Warning — Those students who fall below a 2.00, but within the Academic Warning range appropriate to their

accumulated credit hours, will be required to meet with a designated representative of their dean's office to determine an appropriate course of action. Students failing to meet this requirement or who fail to pursue the recommended strategies over the course of the next regular semester may be subject to academic dismissal.

Students with fewer than 19 total credit hours will not receive a pending dismissal notice, regardless of their grade point average. Such students with a GPA below 2.00 will be notified of Academic Warning and will follow the procedures for students in this category as described above.

Dismissal Hearing — Students who fall below the Academic Warning range appropriate to their accumulated credit hours will receive notice of pending dismissal. These students may petition for academic probation by contacting the office of their academic dean. Students who fail to apply for probation or who are denied probation will be dismissed. Following dismissal, a student must normally wait at least one semester before being considered for reinstatement.

From 70 credit hours onward, failure to maintain a GPA of 2.00 or above will result in a dismissal notice.

Total Credit Hours *	Academic Warning
1–18 credits	below 2.00 GPA
19–36 credits	1.60 to 1.99 GPA
37–53 credits	1.80 to 1.99 GPA
54–69 credits	1.90 to 1.99 GPA

Total Credit Hours *	Dismissal Hearing
19–36 credits	below 1.60 GPA
37–53 credits	below 1.80 GPA
54–69 credits	below 1.90 GPA
70+ credits	below 2.00 GPA

* Completed at and transferred to CCSU

Only courses taken at Central Connecticut State University, 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 University GPA. However, transfer credits will count toward the total number of credits attempted for purposes of academic standing.

An academically dismissed student may enroll through the Enrollment Center/Office

of Continuing Education as a non-matriculated student and seek to bring the cumulative grade-point average back to the good-standing level. Also, an academically dismissed student may petition the academic dean of their major for reinstatement.

After re-attaining good standing, as a result of work as a non-matriculated student, a student may request readmission to Central Connecticut State University as a matriculated student. Consultation with the Office of Admissions concerning deadlines for reactivation is advised.

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

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 grades were processed.

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

Graduation Honors for Baccalaureate Degree

Graduation honors for the baccalaureate degree recognize high academic achievement at Central Connecticut State University as demonstrated by the following cumulative grade-point averages:

Cum laude (honors)	3.50–3.69
Magna cum laude (high honors)	3.70–3.89
Summa cum laude (highest honors)	3.90–4.00

Candidates for Graduation Honors, who will be recognized at Commencement ceremonies, are identified at the conclusion of the regular semester that precedes their final semester prior to graduation, i.e. honors for May graduates will be based on their GPA at the end of the previous fall semester. Full-time students who have earned a minimum of 44 credits toward their graduation requirements in residence at Central Connecticut State University, or part-time students who have earned a minimum of 56 credits toward their degree in residence at CCSU, with a cumulative earned GPA of at least 3.50 are considered to be

Graduation Honors candidates eligible for recognition at Commencement. Candidacy for Graduation Honors does not guarantee the award of Graduation Honors upon completion of degree requirements.

Graduation honors, which appear on both the diploma and the transcript, will be awarded only to students who complete their graduation requirements with a minimum of 62 credits in residence at Central Connecticut State University and a cumulative earned grade-point average of at least 3.50. The residency requirement for honors may not be waived. Students with questions regarding academic honors should consult the Academic Dean of their major.

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 and minor, with a minimum cumulative grade-point average of 2.00 in the major and minor, and complete a minimum of 122 or 130 credits depending on one's major. The School of Education and Professional Studies may have different requirements. See page 67 of the catalog.

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

Programs in the **School of Business** require that 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 with the Office of Registrar one year prior to graduation. The form may be obtained at www.ccsu.edu/Registrar. Those expecting to complete degree requirements in May or August must file by May 1, and those completing in December must file by December 1 of the previous year.

Policy for Granting Students Who Have Almost Completed Degree Require-

ments Permission to Participate in Commencement Ceremonies — Any undergraduate student who has filed a graduation application, and whose spring semester degree evaluation confirms that the student will have completed all but nine (9) or fewer credit hours required for the degree by the following August, will be allowed to participate in Commencement ceremonies.

Undergraduate students having more than nine (9) credit hours of work remaining will not normally be allowed to participate in Commencement ceremonies. However, in the case of extraordinary circumstances, such as family or health emergencies, students may appeal to the Vice President for Student Affairs or designee. The student may be required to provide supporting documentation in making such an appeal. The decision of the Vice President for Student Affairs or designee is final.

Second Undergraduate Major

As part of their undergraduate degree programs, students may complete a second major. To have a second major notation on the official transcript, students must complete a "Second Major" form, available at the Registrar's Office, which requires the declaration of the primary major, the student's degree program, and the requested second major. Students seeking teaching certification must earn a B.S.Ed. degree and list their teacher education subject matter as their primary major.

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, 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 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.*

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 Office of Registrar of their intentions soon after re-admission.*

Registration

Prerequisites — It is the students' responsibility to determine whether they have met prerequisites for a course. 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 description section of this catalog.

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

Dropping a Course — Students are allowed to drop courses up to the last day of the third week of classes during a regular semester. Courses dropped by the deadline do not appear on the student's transcript. Forms are available on the Registrar's Web site at www.ccsu.edu/Registrar or in the Enrollment Center/Office of Continuing Education, Willard Hall.

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 — From the beginning of the fourth week of classes until the end of the eighth week of classes (mid term) in a regular semester, a student may withdraw from a course by completing a withdrawal form available at the Registrar's Office, Davidson Hall, or the Enrollment Center/Office of Continuing Education, Willard Hall. A "W" will be entered for the course on the student's transcript. During this period, approvals for withdrawal are not required; however, it is strongly recommended that students consult with their academic advisor

prior to deciding to withdraw from a course. In addition, students should be aware of the possible consequences of reducing their course load to less than 12 credits, as indicated in the preceding warning.

After the end of the eighth week of classes, a student may apply for withdrawal from a course. The dean of the school offering the course may approve such withdrawal if documented extenuating circumstances, which justify withdrawal, are found to exist. Poor academic performance is not considered an extenuating circumstance. Students may apply for withdrawal using the Course Withdrawal Prior to Midpoint form available on the Registrar's Web site at www.ccsu.edu/Registrar. Signatures indicating the recommendations of the instructor and chair of the department offering the course, as well as the approval of the dean of the school offering the course, will be required. If withdrawal is approved, a "W" will be recorded on the student's transcript. If a student stops attending and fails to withdraw officially from a course, a grade of "F" will be recorded on the student's transcript. In all cases of withdrawal, a "W" does not affect the student's grade-point average.

Pass-Fail Option — A limited pass-fail option in courses not required for the major, minor or general education program is available at the University. To be eligible for the pass/fail option, the student must have completed at least 34 earned hours (including transfer hours) and must be a matriculated undergraduate in good standing. Up to two (2) pass/fail courses may be selected in one semester, but no more than four (4) pass/fail courses may be selected throughout the entire undergraduate career. If a student changes majors to a discipline in which pass/fail credit has been earned, the grade(s) earned in such a pass/fail course(s) shall be retrieved and recorded on permanent record in place of the pass/fail grade. Intent to take a course pass/fail must be filed in the Office of Registrar within the first three weeks of the semester. Refer to the Registrar's Web site at www.ccsu.edu/Registrar for further information.

Audit Option — Full-time undergraduate 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 **Office of Registrar** in the first three weeks of the semester. Failure to meet the instructor's requirements for auditing may result in the student 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. Refer to the Registrar's Web site at www.ccsu.edu/Registrar for further information.

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 on the Registrar's Web site at www.ccsu.edu/Registrar. Students wishing to take 16-week courses along with student teaching must complete the credit overload form. Effective Fall 2003, in addition to the applicable tuition/required fees, full-time undergraduate students registering for *more than 18 credits* will be assessed **excess credit fees** of \$240 per credit for each credit beyond 18. These fees are *non-refundable* and will *not* be deleted if at a later time the total credits number less than 19.

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 have a cumulative average (GPA) of 3.00 or above and who have completed more than 90 semester hours of coursework may request permission to enroll in a 500-level course for which they have met all course prerequisites. Students are required to obtain written permission from their advisor, the course instructor, the chair of the department offering the course, and the Dean of Graduate Studies prior to registration. Priority is given to graduate students; undergraduates who meet criteria are enrolled on a space-available basis. Forms are available in the Graduate Office, Barnard Hall, Room 102, and also at www.ccsu.edu/grad.

Note: Additional work will be required for graduate credit in 400-level courses.

Course Repeat Policy — Students may repeat any course during their tenure at CCSU. The total number of credits that students may repeat, however, is limited to 17 credits, and 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 applies only to undergraduate students and only to courses repeated at CCSU beginning with the Fall 2003 semester.

Some academic departments may require students to retake certain prerequisite courses if there is an extended time lapse between the completion of that prerequisite course and enrollment in subsequent courses. Students should check with the individual departments for time limits on prerequisite courses. Students who must retake prerequisite courses have two options:

1) Students may retake the course and replace their previous grade. Credits for the retake will be applied against the limit of 17 authorized repeat credits.

2) Students may audit the course and retain the existing grade. The 17 authorized repeat credits will not be affected. Students taking this option should be aware that individual academic departments might place special requirements on the auditing of courses. Students must complete an audit request form within the required time frame at the beginning of the semester in which a course is audited.

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 catalogue for Satisfactory Academic Progress Policy.

Note: Education majors and post baccalaureate certification students should refer to the course repeat policy listed in the School of Education and Professional Studies section of the catalog.

ENG 099 and MATH 099 — ENG 099 (formerly ECE 099) and MATH 099 (formerly ECM 099) are three-credit courses. As of Fall 2001, these courses are no longer pass/fail. The letter grade awarded will be computed into a student's GPA, but the credits will not count towards the number of credits required for graduation.

Non-Credit Courses — Non-credit courses are offered through the Enrollment Center/Office of Continuing Education within its community service programs and are noted with a grade of NC.

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

indicate unsatisfactory performance or non-completion of an academic non-credit course.

Appeals for Grade Changes Policy

Academic grading reflects careful and deliberate judgment of a faculty member instructing a course. Academic evaluation of student performance requires expert consideration of cumulative information. Such decision-making by its nature is judgmental and evaluative. The evaluative process is not and should not be likened to the adversarial process involved in disciplinary matters, for academic grade determination is unadaptable to the methods of judicial or administrative decision-making. The education process, moreover, is not by nature adversarial, but rather centers upon a continuing relationship between faculty and student. Administrative interposition, except in the most extreme instances, is to be avoided. The University recognizes that in rare instances there may be errors, or "palpable injustice(s)" in determination of a final grade. A student alleging such error or palpable injustice, i.e., a clear showing of arbitrary or capricious action, may appeal as provided below:

1. **Initial Meeting with Instructor:** A student who believes a grade involved an error or a palpable injustice shall first confer with the instructor who awarded the grade in the next regular semester no later than the first Monday of either October or March. Either the student or the faculty member may request that the initial meeting occur in the presence of the department chair. Should a student be unable to contact the instructor or not receive a decision within two weeks the student should make an appeal to the department chairperson.

2. **Appeal to the Department Chairperson:** If the student is not satisfied with the outcome of Step 1, the student may next present the case, in writing, to the appropriate department chairperson, who may effect a settlement upon written agreement of the instructor. The student's written appeal must be clear and complete. The department chairperson must provide the student and instructor a written decision within two weeks of receiving an appeal. If the chairperson upholds the instructor's grade, and the student wishes to further pursue the appeal, the chairperson shall then forward the appeal (including a copy of the written decision) to

the appropriate dean. If the chairperson finds that the appeal has merit, the chairperson shall then forward the appeal and written decision to the appropriate dean.

3. **Appeal to the Dean:** If the student is not satisfied with the decision made by the chairperson, further appeal by the student shall be to the dean of the school concerned. A grade change shall be made only with the written consent of the instructor and the department chairperson. The dean must provide the student, instructor, and chairperson with a written decision within one month of receiving an appeal. If the dean upholds the instructor's grade, and the student wishes to further pursue the appeal, the dean shall then forward the appeal (including copies of the written decisions) to the Grade Appeals Review Board. If the dean finds that the appeal has merit, the dean shall then forward the appeal and written decision to the Grade Appeals Review Board.

4. **Instructor Deceased or Cannot Be Contacted:** If the instructor is deceased or cannot be contacted by the student and department chairperson in the next regular semester before either the first Monday of October or March the student may confer with the chairperson.

a. Upon evidence of error, the chairperson may make the appropriate grade change after consultation with and approval of the dean of the school. The instructor shall be notified of the change if notice subsequently can be delivered. The chairperson shall make a determination and provide written notification to the student within one month of the appeal.

b. Upon evidence of palpable injustice, the case shall be referred to the Grade Appeals Review Board for action as described in Step 6 below. Written notification of the decision shall be made to the student within one month of the appeal.

5. **Appeal of Grade from Student's Final Semester:** When an appeal for grade change is made at the end of a student's final semester, the student may appeal to the department chairperson. If the instructor cannot be contacted before the grade deadline for graduation and where there is evidence of error, the chairperson may make the appropriate grade change after consultation with and approval by the dean of the school. The instructor shall be notified of the change if notice subsequently can be delivered. If the chairperson finds evidence

As required on the Leave of Absence request form, students must complete the following before the Leave of Absence goes into effect:

- Students living on campus must contact the Office of Residence Life.
- International students must contact the Center for International Education to insure that all legal documents are in order.

Status while on a Leave of Absence:

- Each semester a bulletin of classes and related materials will be sent to all students on a leave of absence.
- The student is eligible to enroll without question upon completion of the leave of absence.
- The student will be reported to all outside agencies as not currently enrolled.
- The student will not be entitled to access or privileges held by enrolled students.
- Upon return to CCSU, the student will comply with the requirements toward his or her degree as identified in the catalog at the time the student originally matriculated, unless other exceptions had been previously authorized.

Requirements to Return:

- The student need only register for the upcoming semester.
- Failure to return to active status during the semester designated on the Leave of Absence application will necessitate that the student apply for reactivation and pay the appropriate fees to Admissions at a later date when they choose to return to CCSU.

Withdrawal from the University

A full-time student wishing to withdraw from the University must confer with the Registrar (Davidson Hall 115) 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 Registrar 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 Academic Dean and the Registrar.

Readmission is contingent upon the student's academic standing at the time of re-entry. The student must complete a reactiva-

tion form with the Office of Admissions to initiate readmission.

Change of Status

Change of status from full-time to part-time may be requested at 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 Registrar (Davidson Hall, Room 115, 832-2236).

Policy on Academic Misconduct

At Central Connecticut State University we value personal integrity as fundamental to our interactions with each other. We believe that one of the purposes of a University education is for students to learn to think critically, to develop evaluative skills, and to express their own opinions and voices. We place special weight on academic honesty in all of our intellectual pursuits because it is a value that is fundamental to academic life and scholarly practice. All members of the University community are obligated to uphold high standards of academic honesty in their scholarship and learning. Therefore, we expect students to take personal responsibility for their intellectual work and to respect and acknowledge the ideas of others. Academic honesty means doing one's own work and giving proper credit to others whose work and thought one may draw upon. It is the responsibility of each student to become familiar with what constitutes academic dishonesty and plagiarism and to avoid all forms of cheating and plagiarism.

The CSU code of conduct, Guidelines for Student Rights and Responsibilities and Judicial Procedures, defines academic misconduct as including, but "...not limited to providing or receiving assistance in a manner not authorized by the instructor in the creation of work to be submitted for academic evaluation including papers, projects, and examinations (cheating); and presenting, as one's own, the ideas or words of another person or persons for academic evaluation without proper acknowledgement (plagiarism)."

Cheating may take many forms. It includes, but is not limited to, the following actions, unless explicitly authorized by the instructor:

Exams

- Copying from another person's paper or receiving unauthorized aid from another person during an examination;
- Use of unauthorized materials or devices during an examination or any other form

of academic evaluation and grading; e.g., use of signals, notes, books, or calculators during an examination when the instructor has not approved their use;

- Knowingly allowing another person to copy from one's paper during an examination.

Improper Behavior

- Use of another person as a substitute in any form of academic evaluation or acting as a substitute for another person in any form of academic evaluation; e.g., a student cannot have another person take an examination for him/her;
- Acquisition or distribution of improperly acquired examinations; e.g., stealing examinations before the test period or taking a copy of an examination from a testing room without the permission of the instructor (examinations which have been distributed by an instructor are legitimate study tools);
- Submission of another's material as one's own for academic evaluation;
- Preparation of work for another student to submit for academic evaluation;
- Unauthorized collaboration in the preparation of materials to be submitted for academic evaluation; e.g., working with another student on an assignment when the instructor has not authorized working together;
- Submission of the same work, or substantially similar work, in more than one course without prior consent of the evaluating instructor(s);
- Disruption in classroom, lab, or research and study areas; any conduct or actions that grossly or persistently interferes with the academic process. (See the CSU, Rights and Responsibilities, "Proscribed Conduct," No. 7, CCSU Student Handbook.)

Falsification or Misuse of Academic Information

- Falsification or misrepresentation of one's own academic record or that of anyone else; e.g., altering a transcript for admission, hacking into the University's computer system and changing a grade, having another student take an examination in one's place, signing someone else's name to an attendance sheet.
- Unauthorized use of information in University computer records or the computer files of other students (see Computer Use Policy);

- Using unauthorized materials or fabricated data in an academic exercise; e.g., falsifying data in a research paper or laboratory activity; conducting research on human or animal subjects without review by the appropriate panel or supervisor.

Plagiarism

- Copying sentences, phrases, paragraphs, tables, figures, or data directly or in slightly modified form from a book, article, or other academic source without using quotation marks or giving proper acknowledgment to the original author or source.
- Copying information from Internet Web sites and submitting it as one's own work;
- Buying papers for the purpose of turning them in as one's own work;
- Selling or lending of papers for the purpose of violating academic honesty policies. (This may also be an academic crime, see Connecticut General Statutes, §53-392a.)

Understanding Plagiarism

Plagiarism is presenting another person's work without acknowledgements, whether in the same or in slightly modified form. In academic practice this is regarded as theft, intended to gain undeserved credit. Like other forms of academic dishonesty, plagiarism is cheating. To academicians, a well-documented paper is more impressive than one which arouses the suspicion of a reader familiar with the student's work and alert to echoes from other writers. The proper use of outside sources does not necessarily mean that a paper is lacking in originality, nor does the presence of quotation marks in the text. In fact, the purpose of research and documentation is to share useful information with the reader. The penalties for plagiarism greatly exceed the unlikely reward of gaining credit by getting away with it. Students must be careful to avoid plagiarism and are responsible for learning how to present the ideas of others in their own work. For current documentation practice, consult the instructor and a style manual. When material is borrowed from another person, the source must be indicated. There are three ways in which another writer's material may appear:

1. By putting quotation marks around short passages borrowed verbatim (word for word); or by setting off from the text, without quotation marks, for longer quotations.

2. By précis; condensing part of a writer's argument.
3. By paraphrase: interpretation of a writer's ideas.

All three must be acknowledged either in footnotes or informally in the text.

Consequences of Academic Misconduct

- There are significant consequences when an undergraduate student engages in academic misconduct.
- In each case the faculty member will initiate a conference with the student, after which the faculty member who believes that misconduct has occurred must complete a University Academic Misconduct Report, which is the record of a faculty member's determination that the student identified in this report has engaged in academic misconduct. The content of a University Academic Misconduct Report shall include all items indicated in the form attached to this Policy.
- A copy of each University Academic Misconduct Report will be sent to the student, the Department chairperson, the Dean's office, and the University Judicial Officer.
- Upon receipt of the University Academic Misconduct Report, the University Judicial Officer, in consultation with the faculty member, may initiate disciplinary proceedings, which may result in sanctions, including disciplinary probation, suspension, or expulsion from the University.
- When a faculty member determines that a student has engaged in Academic Misconduct the student shall be required to complete the Academic Integrity Workshop.
- The sanctions for academic misconduct available to a faculty member include any or all of the following:
 1. A grade of "F" for the course.
 2. A grade of "F" for the material being evaluated.
 3. A reduced grade for the material being evaluated.
 4. The assigning of additional course work.

When Undergraduate Students are Suspected of Academic Misconduct

1. When a faculty member reasonably believes that there is sufficient information to demonstrate that a student may have engaged in Academic Misconduct:
 - a. The faculty member will discuss the incident with the student, in the pres-

ence of the department chair if the faculty member or student so desires.

b. At this time the faculty member shall outline the possible penalties specified in the CCSU Student Handbook.

c. The faculty member will indicate that the matter may be referred to the University Judicial Officer for possible disciplinary action.

2. Based on the available documentation, the response offered by the student, if any, and any other relevant information:
 - a. The faculty member will, within a reasonable period of time, reach a determination whether the student has engaged in Academic Misconduct.
 - b. Should the faculty member determine that Academic Misconduct has occurred, the faculty member shall retain evidence of the said misconduct.
3. If the faculty member determines that Academic Misconduct has not occurred, no University Academic Misconduct Report need be prepared.
4. If the faculty member determines that Academic Misconduct has occurred, the faculty member shall:
 - a. Impose an academic sanction.
 - b. Prepare and forward a University Academic Misconduct Report indicating the determination reached and sanctions imposed.
 - c. Direct the student to attend the Academic Integrity Workshop at the Learning Center.
 - d. Prior to making any determinations, a faculty member may consult with the Learning Center and/or the University Judicial Officer to determine whether the student has already attended the Academic Integrity Workshop.
5. The faculty member
 - a. Shall inform the student that additional University Academic Misconduct Reports may result in more severe penalties.
 - b. May also contact the University Judicial Officer regarding additional University disciplinary actions, which may include probation, suspension, or expulsion.
6. In accordance with the "Student Records and Disclosure Policy," "Data from academic, disciplinary, and counseling files shall not be available to unauthorized persons on campus or to any person off campus without the express consent of the student involved, except under legal compulsion." (CCSU Student Handbook.)

Understanding the Academic Conduct Workshop

The Academic Integrity Workshop is available to all CCSU students so that they will not violate the Academic Misconduct Policy as a result of misunderstanding. For those students who have violated the Academic Misconduct Policy, the Academic Integrity Workshop is designed to educate students about what constitutes Academic Misconduct so that future violations will not occur. Upon completion of the Academic Integrity Workshop, notification will be forwarded to the University Judicial Officer who will document such completion in the student's file. Students must sign up for the Academic Integrity Workshop at the Learning Center within 10 school days of being provided with the University Academic Misconduct Report. Refusal or failure to attend the workshop will result in a referral to the University Judicial Officer for immediate action.

Subsequent Violations of the Academic Misconduct Policy

When the University Judicial Officer receives multiple University Academic Misconduct Reports regarding a particular student, whether or not the faculty member has made a complaint, a "Pre-Hearing Investigation" will normally be conducted in anticipation of disciplinary action, which may result in disciplinary probation, suspension, or expulsion from the University. If the University Judicial Officer determines that a formal hearing is warranted, a faculty member or members may be requested to provide information.

A Student's Rights When Suspected and or Charged With Academic Misconduct

1. A student has the right:
 - a. To meet with the faculty member, in the presence of the Department Chair if so desired, before any determination has been made.
 - b. To be informed during this meeting of the faculty member's suspicions and have an opportunity to discuss the matter.
 - c. To appeal a finding of Academic Misconduct made during the course of the semester, within 10 school days of being provided with a University Academic Misconduct Report.

A written statement of appeal must be provided to the faculty member, the Department chairperson, the Dean, and the University Judicial Officer, setting forth the basis of the student's appeal. Upon receipt of a student's mid-semester

appeal, the University Judicial Officer will consult with the faculty member, the Department Chair, and the Dean and communicate to the student within 10 school days the results of the student's appeal.

2. Once a final grade is awarded, the student may file a grade appeal in accordance with the "Appeals for Grade Change Policy" (CCSU Student Handbook).
3. If a student receives a final grade of "F" as a result of violating the Academic Misconduct Policy, and that grade is upheld by the grade appeal process, no retroactive withdrawal from the course will be permitted.
4. All end of the semester appeals must be made in accordance with the "Appeals for Grade Change Policy."
5. In addition to academic sanctions provided by the faculty member, if disciplinary proceedings have been initiated by the University Judicial Officer, a student has the right to have such proceedings resolved in accordance with the CSU "Guidelines for Student Rights and Responsibilities and Judicial Procedures."

Professor's Responsibilities When Academic Misconduct is Suspected During End of the Semester Grading

If a faculty member reasonably suspects academic misconduct during end of the semester grading, a grade of Incomplete may be entered, to be replaced by an appropriate grade once the issue is resolved. The grade of Incomplete allows a faculty member to complete end of the semester grading and still follow up on suspected violations of the University Academic Misconduct Policy.

Academic Misconduct reported by a member of the University Community other than the relevant faculty member: See "Academic Misconduct" in "Guidelines for Student Rights and Responsibilities and Judicial Procedures" (CCSU Student Handbook).

Adopted by the Faculty Senate
November 5, 2001

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 Service in advance of return. On return, the student obtains a form from the University Health Service 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 transcript is the complete, unabridged academic record, without deletions or omissions, compiled while at Central Connecticut State University. Upon the granting of a degree or completion of a program, a student's transcript is considered officially sealed, meaning no changes in grades or alteration in courses will be made unless that student believes that the information in his or her transcript is inaccurate, misleading, or in violation of his or her rights of privacy. It is a student's responsibility to review and confirm the accuracy of his or her academic record. A student may view his or her transcript at any time on the Web to verify its content. It is recommended that the degree recipient confirm the accuracy of all grades, honors, terms, and cumulative GPA notations at the time final grades are posted to their academic record, on or about graduation.

It is a student's responsibility to notify the Office of the Registrar, in writing, of the information in the transcript that he or she believes is inaccurate, misleading, or in violation of his or her rights of privacy. A student who believes that his or her transcript is inaccurate, misleading, or in violation of his or

her rights of privacy has the right to request an amendment to the transcript and, if this request is denied, the right to an opportunity for a hearing to challenge the content of the transcript on the ground that it is inaccurate, misleading, or in violation of his or her rights of privacy. If, as a result of the hearing, the student's request is denied, the University shall inform the student of the right to place a statement with the transcript, commenting on the contested information in the record or stating why he or she disagrees with the decision of the University, or both.

Transcripts may be obtained from the Office of Registrar, Davidson 115. The cost per copy, which is subject to change, is \$5. The cost of an expedited transcript (issued within 48 hours) is \$15. All requests for transcripts must be in writing and include payment in advance. Please refer to the Registrar's Web site, www.ccsu.edu/Registrar, for further information.

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

Cancellation of Courses — The University reserves the right to cancel courses which have insufficient registration, and to change the schedule of courses or instruction as necessary.

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 (although 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 Office of Registrar. 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.

Graduation Rates

Students may request information on completion and graduation rates from the Office of Planning and Institutional Research (832-1780) or by going to Key Performance Indicators at <http://www.ccsu.edu/planning/ir/index.html>.

ACADEMIC PROGRAMS

The University offers undergraduate programs in liberal arts, teacher education, 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, Bachelor of Science in Education, and Bachelor of Science in Industrial Technology. A summary of these programs appears on the following pages of this section.

The University offers graduate programs leading to the degrees Master of Science, Master of Arts, Master of Business Administration, and to the Sixth-Year Certificate in Reading and in Educational Leadership. Non-degree graduate-level planned programs leading to teacher certification and for professional enhancement are also available. Consult the School of Graduate Studies catalog for more information.

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. Courses applicable to most degree programs are also offered through the Enrollment Center and the Summer Session.

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

Requirements for Bachelor's Degree Programs

A total of 44–46 credits of General Education studies, not including the foreign language requirement, must be completed as part of all baccalaureate degree programs. Nine credits must be taken in Study Area I, nine credits in Study Area II, six credits in Study Area III, six–seven credits in Study Area IV, six credits in Skill Area I, six credits in Skill Area II, up to six credits in Skill Area III, and two–three credits in Skill Area IV. See the General Education section following. (NOTE: All first-year students starting before Fall 1998, and all other students entering before Fall 1999, are covered by an earlier General Education program. Please see page 97 for details.)

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 Department 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. Students who change their major or declare a new major should consult with the chair of the department of the new major or an assigned advisor within that department regarding major requirements. Students are required to complete the major requirements that are in place as of the date of their declaration.

A minor — a secondary field of study (between 18 and 24 credits) — is required for certain majors. Although minor requirements and exceptions to that requirement are specifically noted in the individual program listing, students should consult with their advisors regarding the requirement of a minor. When taken in conjunction with a major area of study as part of the Bachelor of Science in Education, students completing certain minors may be eligible for an additional certification endorsement in that content area. The minimum number of credit hours required to qualify for an additional certification endorsement in the minor area of study is based on Connecticut State Department of Education Certification Regulations and may exceed University credit hour minimums.

Please note, however, that no more than 30 credits of business courses may be applied to a degree program other than a business degree.

In addition to the required courses for major and minor, most bachelor's degree candidates are able to include a number of free elective courses in their programs.

Please see the Undergraduate Field of Study Chart on page 42 for a complete listing of credits required for each degree.

Official Certificate Programs

Official Certificate Programs (OCPs) are defined as academic programs of study that have been through a complete university curricular review and approval process, but which do not lead directly to a formal degree. These programs are designed for people interested in developing expertise in a particular field of study, but who do not wish to complete formal degree requirements. The advantages to these programs are that, as formal programs of study, students may be matriculated, pursue their studies on a full-time basis, and may be eligible for financial aid. Most importantly, these programs are coordinated by faculty closely tied to the area of interest who are committed to advising students enrolled in these programs, ensuring

that the student is best able to achieve his or her educational goals.

General Education

In addition to offering baccalaureate degrees, the University aims to provide students with the basic foundations for lifelong learning as rational members of society, to awaken the pleasures of intellectual exploration and to elevate aesthetic sensibilities. This commitment to personal development depends on the acquisition and expansion of knowledge, intellectual processes and techniques. The General Education program seeks to realize the following objectives:

- To develop and enhance global awareness, civic responsibility, personal reflection and appreciation of cultural diversity.
- To develop critical thinking skills.
- To strengthen writing and communication skills.
- To strengthen quantitative skills.
- To develop and enhance appreciation for the arts and humanities and an understanding of the range of human knowledge.
- To develop scientific understanding of the natural and social worlds.
- To develop computer literacy.
- To foster personal health and fitness.

General Education Program

A total of 44–46 credits of General Education studies, not including the foreign language requirement, must be completed as part of all baccalaureate degrees. Credits must be taken in each of four study areas and four skill areas as follows:

Study Areas

I. Arts and Humanities 9 credits

At least 3 credits required in literature (see page 95 for [L] designation), and no more than 6 credits from any one discipline.

Courses that focus on creative expression and interpretations of human experience, or the appreciation and development of thought and ideas. (In this Study Area, students will typically be exposed to courses in literature, philosophy and fine arts.)

II. Social Sciences 9 credits

At least 3 credits required in history, and no more than 6 credits from any one discipline. Courses dealing with formal social structures (such as governments, interest groups, territorial entities, economic firms) in their historical and contemporary contexts. (In this Study Area, students will typically be

exposed to courses in economics, geography, history and political science.)

III. Behavioral Sciences 6 credits
Courses that focus on the interaction(s) between and among individuals and/or groups and social/cultural institutions. (In this Study Area, students will typically be exposed to courses in anthropology, psychology and sociology.)

IV. Natural Sciences 6–7 credits
A laboratory experience is required. Courses that focus on the scientific analysis of the natural world. (In this Study Area, students will typically be exposed to courses in biology, chemistry, earth science and physics.)

Skill Areas

I. Communication Skills 6 credits
ENG 110 required.¹ Students who have not completed ENG 110 prior to earning 61 credits are required to take both ENG 110 and ENG 202.

II. Mathematics 6 credits
Mathematics course appropriate to the student's major interests plus either one additional mathematics or computer science course.

III. Foreign Language Proficiency 0–6 credits
Proficiency in a foreign language must be demonstrated before graduation. This requirement may be met by any of the following:

a) Three sequential years of one foreign language at the high-school level.

b) Elementary proficiency as demonstrated by successfully completing a second-semester-level CCSU foreign-language course (112). Students with no previous background in a language must take the first and second semesters (111 and 112, or 120); students who place out of 111 due to previous background in the language may satisfy the requirement by taking 112 only.

c) Passing a standardized examination which demonstrates knowledge of a foreign language equivalent to completion of a second-semester course or higher.

d) Successful completion of a foreign-language course at a level higher than the second-semester level.

e) Demonstration of native proficiency in a language other than English (requires evaluation of skill level by an appropriate faculty member and/or official documentation, and approval by the Chair of the Department of Modern Languages).

IV. University Requirement 2–3 credits
Courses designed to foster personal well being and the development of academic skills essential for the successful pursuit of a university education. PE 244 (Fitness/Wellness Ventures) will be required of all students who enter with fewer than 15 credits. Those entering with 15 credits or more may complete this requirement with 2–3 additional credits in the Skill Areas above or with other Skill Area IV courses. Remedial courses, MATH 101 and elementary language courses (111 or 112) will not fulfill this requirement.

A list of courses applicable to each Study and Skill Area will appear at the start of the Course section of this catalog. Where appropriate, courses will also bear current, as well as previous, General Education classifications in the description.

A maximum of 6 credits in the Study Area portion and a maximum of 6 credits in the Skill Area portion of the General Education program may be fulfilled by major or minor courses that are designated as applicable to General Education.

Note: First-year students starting before Fall 1998 and all students entering prior to Fall 1999 should refer to the note regarding the previous General Education program on page 97 of this catalog.

¹An 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.

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.

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, each student must complete 6 credits in courses designated as "International" [I]. Such courses shall be defined as ones: 1) dealing with a country or region other than the United States; 2) involving

the comparative study of two or more countries or regions, one of which may be the United States; 3) that focus upon global themes; or 4) any foreign language course at the 112 level or higher. International courses [I] are listed with all other General Education courses.

First-Year Experience. Required for all students with fewer than 15 credits and to be taken in the student's first semester. This requirement may be completed by either a First-Year Experience (FYE) section of ENG 110 or an FYE introductory course to a discipline in the Study Areas section of the General Education program. Those students who withdraw or fail to be enrolled in an FYE course in their first semester will be required to take an FYE course in their second semester.

UNDERGRADUATE FIELDS OF STUDY

FIELD OF STUDY/MAJOR	DEGREE		MINOR OFFERED
	All programs Except Teaching 122 Credits	Teaching Programs 130 Credits	
Accounting	BS		Yes***
Actuarial Science (Math. Sci.)	BA		
Anthropology	BA		Yes
Art**	BA	BS	Yes
Athletic Training	BS		
Biology**	BS	BS	Yes
Chemistry**	BS	BS	
Communication	BA		Yes
Computer Science	BS (Honors)/BS (Alt.)/BA (Interdisciplinary)		Yes
Construction Management	BS		
Criminal Justice			Yes
Criminology	BA		
Earth Sciences	BS	BS	Yes**
Economics**	BA		Yes
Education*			
Early Childhood Education		BS	
Elementary Education		BS	
Secondary Education			
Biology		BS	Yes
Chemistry		BS	Yes
Earth Sciences		BS	Yes
English		BS	Yes
French		BS	Yes
Integrated Science		BS	Yes
German		BS	Yes
History		BS	
Italian		BS	Yes
Mathematics		BS	Yes
Physics		BS	Yes
Social Sciences		BS	
Spanish		BS	Yes
NK-12			
Art Education		BS	
Music Education		BS	
Physical Education		BS	
Technology Education		BS	
Special Education****		BS	
Electronics Technology		BS	
Engineering Technology		BS (130 credits)	
Civil			
Manufacturing			
Mechanical			

FIELD OF STUDY/MAJOR	DEGREE		MINOR OFFERED
	All programs Except Teaching 122 Credits	Teaching Programs 130 Credits	
English**	BA	BS	Yes
Exercise Science (Physical Education)	BS		
Finance**	BS		Yes***
French	BA	BS	Yes
Geography**	BA	BS (Elementary)	Yes
German	BA	BS	Yes
Graphic/Information Design	BA		
History	BA	BS	Yes
Hospitality and Tourism Studies	BS		
Industrial Technology**	BS		
International Business	BS		
International Studies**	BA		Yes
Italian	BA	BS	Yes
Management**	BS		Yes***
Management Info. Systems	BS		Yes***
Marketing**	BS		Yes***
Mathematics**	BA	BS	Yes
Medical Technology	BS		
Music	BA	BS	Yes
Nursing	BSN (125 credits)		
Philosophy**	BA		Yes
Physics	BS	BS	Yes
Political Science**	BA		Yes
Psychology	BA		Yes
Social Work	BA		
Sociology	BA		Yes
Spanish	BA	BS	Yes
Special Studies	BA/BS		
Theatre**	BA/BFA		Yes

*Education programs for business education, remedial reading, reading and language arts consultant, school administration and leadership, and for Teachers of English for Speakers of Other Languages (TESOL) are offered at the graduate level, although some preparation may be possible in business education and TESOL while students are undergraduates.

**See departmental listing for specializations/minors within the major.

***May not minor in a business discipline.

****Not open to new students at this time.

Susan E. Pease, *Interim Dean*
 Richard L. Roth, *Associate Dean*
 Paul L. Altieri, *Assistant to the Dean*
 Phone: (860) 832-2600

The School of Arts and Sciences offers programs leading to the bachelor of arts degree, the bachelor of science degree, the bachelor of fine arts degree and the Bachelor's degree in Social Work. These programs are designed to provide a broad liberal education; the subject matter background for specific careers, including teaching; and the preparation for graduate work in a number of academic fields and professions, including law and medicine.

The programs in the School of Arts and Sciences include the fine arts, the humanities, mathematics, computer science, the natural sciences and the behavioral and social sciences. Some programs are designated "certifiable for teaching." These programs all have additional requirements which are found in the catalog descriptions listed under the School of Education and Professional Studies.

When planning for majors and minors, students must consult with department chairs or program directors and be assigned a faculty advisor.

Anthropology

M. A. Park, *Chair*; A. E. Adams,
 K. L. Feder, D. A. Kideckel, W. Perry,
 E. N. Phillips. (Dept. phone 832-2610, 2611
 or 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. Biological 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 minors 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. An annual summer archaeological field school provides experience in archaeological excavation and analysis. The microfiche and on-line Human Relations Area Files in the Burritt Library Serials Department is an easy-to-use system for cross-cultural research. There is also an extensive collection of human skeletal materials and fossil casts for education in biological anthropology. Extensive internship opportunities and summer field schools in cultural anthropology are also available.

Major in Anthropology, B.A.

39 credits in Anthropology, including ANTH 150, 160, 170; one course from ANTH 300, 316, 318, 320, 330, 422, 424, 426, 428; one course from ANTH 329, 345, 370, 374, 450, 451, 470; ANTH 375, 430, 465; one archaeology elective*; one biological anthropology elective*; one cultural anthropology elective*; one course from ANTH 433, 437; and ANTH 490.

* Two of the electives must be at 300 level or higher.

Minor in Anthropology

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 advisor.

Minor in Archaeology

24 credits, including ANTH 150, 215, 324, 450 and 12 credits from ANTH 210, 316, 318, 320, 322, 323, 329 and 330. For students majoring in anthropology, six credits of this minor may be applied to the major.

Minor in Biological Anthropology

18 credits including ANTH 160, 265, 345, 365 and 465, and three credits of minor-related electives. For students majoring in

Anthropology, three credits of this minor may be applied to the major.

Minor in Cross-Cultural Analysis

18 credits including ANTH 170, 200, 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 advisor. For students also majoring in Anthropology, three credits of this minor may be applied to the major.

Minor in Practicing Anthropology

18 credits, including ANTH 170, 200, 370, 374, 437 and either 300 or 470. For students majoring in anthropology, three credits of this minor may be applied to the major.

Art

C. Broadus-Garcia, *Chair*; M. Alewitz,
 J. Buxton, S. O. Fafunwa-Ndibe,
 S. Gallagher, V. Garcia, F. Hentschel,
 E. Langhorne, C. Marshall, R. Siporin,
 M. Strathy, R. Todd (Dept. phone 832-2620)

The Art Department's undergraduate degree program offers a wide range of art specializations, including painting, printmaking, illustration, sculpture, ceramics, graphic design, media arts and art history. Both concepts and technical excellence are stressed within a curriculum that encourages all forms of creative explorations via a developing professional exchange with faculty. All majors must complete a successful portfolio review of at least 10 works to become eligible for upper division courses. Study plans for students are developed on an individual basis consistent with the goals identified by the student and the advisor. The Department houses, within the Samuel S. T. Chen Fine Arts Center, a gallery that offers regular shows for professional exhibits, including the works of internationally known artists Sol LeWitt, Cleve Gray and Robert Cottingham. Opportunities abound for internships with community-based organizations, design firms, museums, galleries and schools.

Major in Art, B.A.

60 credits as follows:

Core (18 credits): ART 112, 113, 120, 124, 130 and 230.

Specialization (21 cr.): either

Area 1, Art History: ART 210, 215, 218, 411, 412, 414, 416**Area 2, Ceramics:** ART 260, 360, 414, 416, 460, 465, 468**Area 3, Graphic Design:** ART 224, 247, 431; DES 222, 322, 436, 438**Area 4, Illustration:** ART 224, 324, 416, 424, 431, 432; DES 222**Area 5, Media Arts:** ART 247, 347, 348, 349, 420, 448, 449**Area 6, Painting:** ART 252, 352, 353, 414, 416, 431, 465**Area 7, Printmaking:** ART 240, 341, 343, 414, 416, 465**Area 8, Sculpture:** ART 261, 361, 362, 414, 416, 431, 465

Directed Electives (18 cr.):

Major-related electives, selected in consultation with advisor

Capstone (3 cr.):

ART 499

Major in Art Education, B.S. (Certifiable for N-12 teaching)

45 credits, as follows:

Core (36 cr.):

ART 112, 113, 120, 124, 130, 240, 252, 261, 263, 260, 491, and one 400-level Art History course

Studio Specialization Area (9 credits in one media area are required. 3 credits from the required studio core can be used as a beginning studio specialization course.):

Area 1, Ceramics: ART 260, 360, 460, 468**Area 2, Crafts:** ART 263, 264, 366, 464, 466**Area 3, Drawing:** ART 130, 230, 430, 431, 432**Area 4, Graphic Design:** DES 126, 222, 322, 436; ART 247**Area 5, Illustration:** ART 224, 324, 424**Area 6, Media Arts:** ART 247, 347, 348, 349, 420, 448, 449**Area 7, Painting:** ART 250, 252, 352, 353, 450**Area 8, Printmaking:** ART 240, 341, 343, 441, 443**Area 9, Sculpture:** ART 261, 361, 362

Directed Electives (3 cr.):

Chosen in consultation with advisor

No minor is required for B.S. in Art Education students.

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.

Minor in Art

18 credits in Art are required, grouped according to the recommendations of the Art Department. Students choosing to minor in Art must consult the department chair for the assignment of an advisor.

Biological Sciences

R. E. Rollin, *Chair*; D. R. Carter, M. A. Davis, S. L. Halkin, J. N. Jarrett, M. A. Kapper, T. R. King, K. A. Martin-Troy, T. Mione, J. P. Mulrooney, B.J. Nicholson, P. Osei, C. A. Penniman, D. A. Spector, J. T. Tessier, C. L. Watson (*Dept. phone 832-2645*)

The Biological Sciences Department has 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 has a wide range of modern research equipment in laboratories designed for class and/or individual research studies. Specialized facilities, available for faculty and student instruction and research, include a greenhouse, herbarium, protein purification facility, photosynthesis research laboratory, molecular genetics research laboratory, controlled environment room, computer laboratory, cell culture facilities, mouse and rat colonies, darkrooms, experimental gardens and growth chambers.

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. (Non-Teaching)

Core (17–19 credits): BIO 121, 122, 201, 202 and either 390 or 391, and ONE of the following Advanced Components.

(a) General Biology (32 total credits in Biology required)

Core, plus 13–15 credits of any other 300- and 400-level Biology courses. In addition, MATH 124, or MATH 125 and 115; CHEM 121, 122, 311, 312; and PHYS 121, 122 are also required.

This program includes consideration of all the major concepts and areas of biology. Students are encouraged to see connections in biological processes from the standpoint of all sciences. Students may select different courses to build on the knowledge gained in their first and second years of study and design a biology curriculum that suits their interests. With this degree, students may enter a variety of careers in research, health-related fields, industry or graduate study.

(b) Specialization in Cell, Molecular and Physiological Biology (32 total credits in Biology required)

Core, plus 13–15 credits as follows: BIO 306, 311 or 316; BIO 410, 412, 449, or 495; and any advanced courses in the C/M/P Group (see list below). In addition, MATH 124, or MATH 125 and 115; CHEM 121, 122, 311, 312; and PHYS 121, 122 are also required.

This specialization offers a curricular focus on molecular and cellular mechanisms that is integrated with organismal physiology and emphasizes the principles and practice of biological research. It is designed to prepare students for careers that use the concepts and techniques of molecular and cellular biology, advanced training or careers in the health sciences or graduate study in fields such as genetics, microbiology, molecular biology, cell physiology or biochemistry.

C/M/P Group

Course		Credits
BIO 306	Genetics	4
BIO 311	Cell Biology	4
BIO 316	Microbiology	4
BIO 318	Anatomy and Physiology I	4
BIO 319	Anatomy and Physiology II	4
BIO 401	Human Nutrition and Metabolism	3
BIO 410	Ecological Physiology	4

BIO 412	Human Physiology	3	BIO 327	Vascular Plants	4
BIO 413	Human Physiology Laboratory	1	BIO 405	Ecology	4
BIO 449	Plant Physiology	3	BIO 410	Ecological Physiology	4
BIO 450	Investigations in Plant Physiology	1	BIO 420	Ornithology	4
BIO 490	Topics in Biology*	3–4	BIO 425	Aquatic Plant Biology	4
BIO 491	Advanced Studies in Biology*	1–3	BIO 434	Ecology of Inland Waters and Estuaries	4
BIO 495	Capstone in Molecular Biology	4	BIO 436	Environmental Resources and Management	3
BIO 496	Capstone in Biosynthesis, Bioenergetics and Metabolic Regulation	3	BIO 438	Aquatic Pollution	4
BIO 497	Biosynthesis, Bioenergetics and Metabolic Regulation Laboratory	1	BIO 440	Evolution	3
BIO 499	Undergraduate Thesis in Biology*	1	BIO 444	Plant Taxonomy	3
CHEM 454	Biochemistry	3	BIO 480	Animal Behavior	4
CHEM 456	Toxicology	3	BIO 481	Comparative Vertebrate Anatomy	4
			BIO 490	Topics in Biology**	3–4
			BIO 491	Advanced Studies in Biology**	1–3
			BIO 499	Undergraduate Thesis in Biology**	1

*with a topic focus approved by the C/M/P faculty advisor

(c) Specialization in Ecology, Biodiversity and Evolutionary Biology (32 total credits in Biology required)

Core, plus 13–15 credits as follows: One of BIO 405, 434, 440, 480; one of BIO 316, 321, 322, 326, 327, 420, 425, 444; any advanced courses in the E/B/E Group (see list below). In addition, MATH 124, or MATH 125 and 115; CHEM 121, 122, 311, 312; and PHYS 121, 122 are also required.

This specialization emphasizes ecological and evolutionary processes integrated with study of organismal diversity. Students will develop an understanding of the processes that influence relationships among organisms and interactions with their environments through selected courses and individual research projects. This program will prepare students for careers with government agencies (e.g., conservation, fisheries and wildlife management, forestry), non-governmental organizations, environmental education groups and the environmental industry. In addition, students will be prepared for graduate studies in fields such as ecology, evolution, animal behavior, natural resources management or marine and aquatic biology.

E/B/E Group

Course	Credits	
BIO 321	Invertebrate Zoology	4
BIO 322	Vertebrate Zoology	4
BIO 326	Non-Vascular Plants and Fungi	4

**with a topic focus approved by the E/B/E faculty advisor.

(d) Specialization in Environmental Science (31–35 total credits in Biology required)

Core, plus 14–16 credits as follows: Either BIO 436 or 438; one of BIO 316, 321, 322, 326, 327, 420, 425, 444; one of BIO 311, 410, 412/413, 449/450; either BIO 405 or 434. In addition, MATH 124, or MATH 125 and 115; CHEM 121, 122, 301, 311, 312, 406; either ESCI 121/123 or 450; and PHYS 121, 122 are also required.

This specialization offers students a strong biology core curriculum and added multidisciplinary strengths in environmental science. The program provides students with a foundation in organismal biology, ecology, environmental chemistry, earth science and environmental management in order to give an understanding of environmental issues from a multidisciplinary perspective. The program has particular strengths in plant and animal organismal biology and aquatic (freshwater and estuarine) ecology. The specialization prepares students for careers in environmental science and natural resource management with government agencies, nongovernmental organization and the environmental industry, or for graduate studies in these areas.

Major in Biology, B.S. (Certifiable for teaching grades 7–12)

37 credits in Biology as follows: BIO 121, 122, 201, 202; one of BIO 321, 322, 420, 481; one of BIO 326, 327, 425, 444; either BIO 306 or 316; either BIO 405 or 311;

one of BIO 318, 319, 410, 412/413, 449/450; BIO 390. In addition, MATH 124, or MATH 125 and 115; CHEM 121, 122, 250; PHYS 121, 122; and Professional Education courses EDTE 315, EDF 415, SPED 315, EDSC 425, 435, SCI 416, 417, 419 and RDG 440 are required.

This specialization is designed for students who wish to teach biology at the secondary level. The program includes consideration of all major concepts and areas of biology. Within some of the areas, students may select different courses to build on knowledge gained in their first and second years of study. Students are continuously encouraged to see connections in biological events from the standpoint of all sciences. The specialization also includes a professional education component. Because of the breadth of required courses, it is also possible for students in secondary education to enter a variety of other careers in research, health and industry, as well as graduate study.

A student who majors in biology is not required to complete a minor but is urged to minor in one of the other laboratory sciences or General Science.

Portfolio Requirement

All majors in the Department of Biological Sciences are required to complete a Student Portfolio. Minimally, the Student Portfolio must include a current resume, a current Student Graduation Evaluation (available from the Biological Sciences Department) or transcript, a narrative describing the student's goals for undergraduate education and graduate educational or career plans, and writing samples from one or more upper-level courses in the major. To fulfill the Portfolio Requirement in Biological Sciences, the Student Portfolio must be reviewed with one or more faculty members in Biological Sciences — as a course requirement in BIO 201 and 202, as a required component of BIO 390, 391, 491 and all independent studies and internships, and prior to application for graduation, as evidenced by submission of a "Portfolio Requirement Completed" form (available from the Biological Sciences Department and signed by the major advisor) to the Biology Chair.

Minor in Biology (Certifiable for secondary teaching)

20 credits required (for those with a major in Chemistry, Physics or Earth Sciences) as follows. BIO 121, 122, 201, 202 and any 4-credit course at the 300 or 400 level. In addition, SCI 416, 417, 419; MATH 125

and CHEM 121 are required. Those with a major in any other discipline should consult with the department chair about the specific requirements for the minor.

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

(Acceptable for certification in elementary education)
39–42 credits. For course listing, see major in Interdisciplinary Sciences, page 57.

For certification in elementary or middle level education, Complementary Subject Matter Area in Biology:

18 credits, as follows: BIO 121, 122, 132 and 133; 6 credits from BIO 100, 120, 150, 321, 322, 326, 327; and any 300- or 400-level biology course; at least 3 credits must be at the 200-level or higher. Please consult with the School of Education and Professional Studies concerning additional requirements for dual subject programs and interdisciplinary majors.

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

53–57 credits. For course listing, see major in Interdisciplinary Sciences, page 57.

Minor in Biology (Non-Teaching)

20 credits in Biology, including BIO 121, 122, 201, 202 and 4 credits of Biology electives at the 300 or 400 level.

Official Certificate Program: Certificate in Biotechnology (OCP 101)

This certificate program is designed for undergraduates wishing to develop proficient laboratory skills and demonstrate specialized knowledge in the area of modern molecular biotechnology. This formal program offers students the extra biotechnology experience they may desire without removing any of the breadth required in their major program in Biological Sciences. This certificate program also allows students majoring in other disciplines to develop and demonstrate a mastery of modern molecular biotechnology knowledge beyond the minor in Biology but without the breadth requirements of the Biological Sciences major.

The C/M/P Coordinator in Biological Sciences will serve as the point-of-contact for interested students and will assign each a committee of three advisors who work with students to develop a planned program to best serve individual needs and goals.

To be eligible for a Certificate in Biotechnology, a student must be in good standing. Courses taken to satisfy major requirements *may* be counted to satisfy certificate requirements as well, provided the student has earned a B or better in such courses. Award of the Certificate will require portfolio compilation and review (see page 45 for a description of the portfolio requirement). The portfolio must include a detailed description of the research experience and a narrative explaining how the planned program developed the student's knowledge and competence in the area of biotechnology.

The Certificate in Biotechnology requires 17–18 credits from the list below, including at least 3 credits of laboratory instruction and at least 2 credits of independent laboratory research.

Research Component (2 cr.):
BIO 390 and BIO 491

Laboratory Science Component (12 cr.):
Three four-credit courses (with lab) chosen from the following: BIO 306, 311, 316, 449/450, 490, 495, 496/497.

Molecular Biology Elective (3–4 cr.):
Three to four additional credits from any of the above or: BIO 449, 490, 496, 562, 570; CHEM 454, 456.

Note: Course prerequisites must be met. Undergraduate students who wish to enroll in graduate courses are required to have a 2.70 CGPA and senior standing. Students are also required to obtain the written permission of their advisor, chair of the department offering the course and the Associate Vice President of Academic Affairs and Dean of Graduate Studies prior to registration.

Chemistry

T. D. Shine, *Chair*; J. V. Arena, T. Burkholder, G. Crundwell, N. M. Glagovich, C. A. Jones, M. LaFontaine, R. Troy, B. L. Westcott, Jr. (Dept. phone 832-2675)

The Chemistry Department offers B.S. degrees in chemistry which include specializations in business, computer science, biological chemistry and environmental science,

or are designed for those wishing to teach chemistry at the high school level. In addition, the Department offers a B.S. degree which is approved by the American Chemical Society.

The Chemistry Department provides undergraduate and graduate courses in the five major areas of chemistry (analytical chemistry, biochemistry, inorganic chemistry, organic chemistry and physical chemistry). The Department facilities are located in Copernicus Hall and include six major instructional laboratories and two major instrument rooms, as well as two research laboratories. In addition, the Department shares a state-of-the-art computer laboratory, also in Copernicus Hall, with two other departments.

Chemistry students at the undergraduate and graduate level are encouraged to perform research under the mentorship of a faculty member. Chemistry students have the opportunity to work on all of the Department's chemical instrumentation. These include a gas chromatograph/mass spectrometer, a Fourier transform nuclear magnetic resonance spectrophotometer, two Fourier transform infrared spectrometers, two UV/visible spectrophotometers, two high-performance liquid chromatographs, an atomic absorption spectrophotometer, a spectrofluorometer, a BAS 100A electrochemical analyzer, a petrographic microscope, three stand alone gas chromatographs and other assorted pieces of instrumentation. The Department also has a variety of computer workstations for computer-based molecular modeling and investigations.

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.

47 credits in Chemistry, as follows: CHEM 121, 122, 301, 311, 312, 313, 316, 321, 322, 402, 454, 460, and 461; two credits of CHEM 432 are also required for graduation. Students must also complete PHYS 125 and 126, and MATH 152 and 221. The student must also complete 8 credits from the following approved list: BIO 121 or higher, PHYS 220 or higher, ESCI 121 or higher, or MATH 222 or higher. 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. No minor is required.

(b) Chemistry-Biological Chemistry Specialization

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

58–59 credits, as follows: CHEM 121, 122, 301, 311, 312, 313, 320, 402, 454, 455, 459; BIO 121, 122, 201, 306; and 7–8 elective credits from BIO 316, 318, 319, 416, 495 and CHEM 456. Additionally, students must take PHYS 125 and 126 or PHYS 121 and 122, and MATH 152 and 221.

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, 402 and 460. In addition, students must take BIO 121; PHYS 125, 126; SCI 420; MATH 121 (or 119), 152 and 221; and 1 credit of science electives approved by the chair.

30 credits also must come from the following courses which require prior acceptance into the Professional Program in the School of Education and Professional Studies: SPED 315; EDTE 315; EDF 415; EDSC 425, 435; RDG 440; SCI 416, 417, 419.

For students contemplating graduate work, a year of German or Russian is recommended. Students who major in Chemistry are not required to complete a minor, but are urged to minor in General Science.

Minor in Chemistry (Certifiable for secondary teaching)

18 credits in Chemistry if the student's major is Biology, Physics or Earth Science, including CHEM 121, 122, 301, 311 and one Chemistry elective from courses numbered 300 and above. In addition, students must take PHYS 121, 122; BIO 121; SCI 417 and MATH 121 (or 119). For other majors, a certifiable minor in Chemistry requires 30 credits planned with the approval of the chair of the Chemistry Department.

Minor in Chemistry (Non-Teaching)

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

Communication

S. Mendez-Mendez, *Chair*; J. Del Ama, R. M. Fischbach, G. Fitzgerald, Y. Ju, A. Moemeka, C. Pudlinski, K. Ritzenhoff, B. Sevitch, H. Shiau, C. B. Tyson, 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 can also complete **two capstone** experiences on an optional basis as part of their graduation requirements. The first option is a **colloquium presentation** in which the student discusses a piece of their work (research paper, video production, internship, etc.) which was done 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 option pertains to a **student portfolio** that the 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 his or her 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 Department of Communication.

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 interests. 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) for students with specialized needs, an **advisor-based program** is another option. In addition to these educational and occupational opportunities, a student might choose to pursue directions which could lead to an advanced degree in Communication.

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 minor and obtain a **2.00 GPA** or better. Also, students must complete four required Communication core courses at CCSU: COMM 140, COMM 215, COMM 230 and COMM 245, and achieve a **2.50 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 five of the six core courses (COMM 140, 215, 230, 245 — and for transfer students COMM 301 and/or 302 and/or 303) **until they have been admitted to the major.** The sixth core course — COMM 400 — must be taken before graduation. Students who have been denied admission to the major may apply courses they have taken in the core to a minor in Communication provided there is no grade lower than a C-. Alternatively, they may repeat courses in which they received a C- or lower in order to raise their GPA.

Students in the process of completing the admission requirements to the Communication major are considered **Pre-Communication majors**. They should go to the Advising Center located in Willard 100 for academic advising, until their admission to the Communication major. Pre-Communication majors, when enrolled in the last Communication course needed for admission to the major, should go to the Communication Department office and complete a Major and Program Change Form. The chair will sign this form, after evaluating the student's transcript to determine if he or she meets the admission requirements. Upon being admitted to the major, the student will be assigned a Communication Department faculty member as an advisor. The Registrar's Office will also be notified that the student's major has been changed from Pre-Communication to Communication.

Curriculum Guide Sheets listing required and recommended courses for each emphasis are available in the department. A maximum of 6 credits in related courses from outside the department (also listed on Curriculum Guide Sheets) may be counted toward 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 advisor and department chair as well as complete a course substitution form. Furthermore, **completion of a minor in a related field of study in another department at the University is required**. Students should complete a Program Change Form as soon as possible to declare their minor.

Note: Some courses offered by the Department are open to majors only. See course descriptions for information.

Minor in Communication

21 credits in Communication, including COMM 115 or 140, 215, 230, and 12 credits in Communication courses, 6 of which must be numbered 300 or 400. Students may not count both COMM 115 and COMM 140 towards the minor.

Computer Science

J. M. Calvert, *Chair*; F. Abdollahzadeh, B. P. Kjell, Z. Markov, B. O'Connell, I. Pevac, R. Rajaravivarma, N. Zlatareva
(Dept. phone 832-2710)

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

All Computer Science (CS) majors take courses covering program design, data structures, assembly language programming, digital design and systems programming. Topics courses, including database design and applications, networking, graphics and visualization, and Web-centric computing, allow the department's offerings to keep pace with the rapid advancement of computer technology, and 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.

State-of-the-art computing facilities and university networking infrastructure provide students access to on-campus specialized software packages and streaming video capabilities, as well as Web-based remote accessibility for on-line teaching and learning.

Major in Computer Science, B.S. (Honors) (Non-Teaching) (CAC/ABET-accredited)
64 credits. Core (18 credits): CS 151, 152, 161, 253, 254, 354. Advanced Area Courses

(9 credits): CS 355 plus choice of two from CS 385, 463, 464. Advanced Directed Electives (9 credits): Choice of three from CS 410, 423, 460, 462, 465, 473, 481, 483, and 490, selected in consultation with an advisor. Auxiliary electives (4 credits): Selected, in consultation with an advisor, from those not selected from Advanced Area Courses or Advanced Directed Electives or from CS 290, 300, 301, 398, 407, 498, 499. Mathematics and statistics (15 credits): MATH 152, 221, 218, and STAT 315. Science (9 credits): PHYS 338 plus one of the following sequences: BIO 121 and 122 or CHEM 121 and 122 or ESCI 121, 122, and 123 or PHYS 125 and 126. Majors must also take PHIL 245 and an additional 6 credits in science.

Computer Science honors program majors are not required to complete a minor.

Students in this Honors program are required to take a proficiency test specified by the department during their senior year.

Major in Computer Science, B.S.

(Alternative) (Non-Teaching)

38 credits as follows: 30 credits of Computer Science courses, including CS 151, 152, 161, 253 and 254, and 15 elective credits selected in consultation with an advisor. No other CS course numbered below 210 can be counted for this major. 8 credits in mathematics: MATH 152 and 218. This alternative major may be completed in as few as four semesters and allows the student to complete requirements for a minor.

Minor in Computer Science

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

Interdisciplinary Major — Sciences with Core in Computer Science, B.A.

39 credits as follows: 18–24 credits of Computer Science consisting of CS 151, 152, 253 and 254, plus 4–10 credits in electives chosen from CS courses numbered above 300. 9–15 credits in mathematics chosen from MATH 121, 152, 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.

Criminology and Criminal Justice

S. Cox, *Chair*; R. Fernandez, J. Hedlund, D. Mitchell, S. Pease, R. Tafrate (*Dept. phone: 832-3005*)

Major in Criminology, B.A.

39 credits as follows: CRM 110, 133, 238, 231, 222, 337, 435, and 18-credits of electives (12 of which must be at the 300- or 400-level). Also, students are directed to take STAT 215 in Skill Area 2 and PHIL 144 in Study Area 1.

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, policy, planning and evaluation. Through 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.

Minor in Criminal Justice

18 credits as follows, CRM 110, 133, 222, 337, and 6 credits of electives. Students minoring in Criminal Justice are urged to consult an advisor in the Criminology and Criminal Justice Department.

Design (Graphic/Information)

S. G. Vial, *Chair*; P. Anneser, J. Calvert, A. Sarrafi, E. Thornton, B. Tyson (*Dept. phone 832-2557*)

Major in Graphic/Information Design, B.A.

33 credits as follows: DES 222, 322, 325, 326, 419, 436, 438, 499; MKT 306; either COMM 330 or 336; CS 495. Additionally, ART 110, 130, 224; COMM 230; MKT 295 and MIS 201 are required.

Note: Students must complete a standard minor or 18 credits of major-related courses as approved by advisor. Students are limited to six credits of design-designated coursework per semester without approval of advisor and department chair.

The Bachelor of Arts Degree in Graphic/Information Design provides professional studies in the areas of Graphic Design, Web Site Design, Interactive Multimedia Design, Information Design and Digital Imaging.

The Department provides an academic structure for the advancement of Graphic and Information Design instruction and degrees at both the undergraduate and graduate level. The Department of Design (Graphic/Information) is separate from the Departments of Art and of Computer Electronics and Graphics Technology. The faculty and staff are comprised of members with academic background and professional experience in graphic design, fine art, advertising, illustration, information design, communications, marketing, computer science, web site design and interactive multimedia design. The Department maintains a state-of-the-art print center and laboratories.

Upper-level students may be selected (by portfolio) for participation in the following:

1. Design Internship experience with graphic design, advertising, publishing, web site or multimedia design companies.
2. Central Design, student operated full service graphic design studio.
3. International Design Student Exchange.

Graduates of the Department are highly successful, working as designers and art directors with nationally known graphic design firms, advertising agencies, corporate design and communication departments, broadcasters, publishers, and web site design houses, as well as multimedia/animation studios.

Program Admission/Requirements:

First-year students and all incoming students will be advised by the Department of Design (Graphic/Information) as pre-graphic/information design majors prior to full program admission.

Students seeking full admission to the B.A. Graphic Information Design degree program must meet the following qualifications:

- complete nine credits at CCSU
- complete DES 222, ENG 202, and MIS 201 with a grade of "B" or better and

MATH 105 or 115 with a grade of "C" or better

- overall GPA of 2.50 strongly recommended. Student must be in good academic standing.

Note: Students enrolled in the following courses will be assessed a \$65 Design Lab Fee: DES 222, 322, 325, 326, 436, 438, 439, 465, 498, 499, 503, 504, 597, 598. Contact the Department for additional information.

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 GEOG 244 or HIST 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, 136 (signature of chair of Dept. of Mathematical Sciences required for admission), STAT 215, 216 (total 21 credits) or ECON 300, 310, 311, MATH 121, 152, 221, 222 and STAT 315, 416 (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 110, STAT 455, 456, CS 151, 254, 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 minor is required for students choosing this major.

Minor in Economics

18 credits as follows: ECON 200, 201 and 12 credits of electives in Economics. GEOG 244 or HIST 465 may be credited toward the minor for students completing elementary and secondary certificates.

English

G. Gigliotti, *Chair*; S. Barnett, C. Barrington, A. Cannella, D. Cappella, M. Ciscel, S. Cohen, C. Doyle, R. Dunne, S. N. Gilmore, T. Hazuka, J. A. Heitner, B. A. Johnson, J. Jones, P. Karpuk, E. Leonidas, G. Majumdar, V. B. Martin, M. Mentzer, M. A. Nunn, A. G. Osburne, S. D. Ostrowski, R. Schipke, R. Shankar, J. K. Weinberger, L. Zidani-Eroglu (*Dept. phone 832-2740*)

General Prerequisite: ENG 110 is a prerequisite for all other English courses, except ENG 099; ESL 108, 109.

Major in English, B.A.

42 credits in English, as follows: ENG 205, 206, 210, 211; ENG 203 or 204; and one course from the following: LING 200, 230, 400, 430, 431. In addition, 24 credits on the 300-400 level* as follows: four courses (12 credits) in British literature, one each in the following areas — I. 700–1660 A.D., II. 1660–1900, III. 1900–Present, IV. Major figure (Chaucer, Shakespeare, Milton); three courses (9 credits) in American literature — one in a period preceding 1865, one in a period following 1865 and ENG 449; and one course (3 credits) in world literature.

Major in English, B.S. (Appropriate for certification in secondary education) 43 credits in English, as follows: ENG 205, 206, 210, 211, 402, 420, 435 (to be taken concurrently with ENG 420 and EDSC 435) and 492; LING 200 or 400. In addition, 18 credits on the 300–400 level* as follows: four courses (12 credits) in British literature, one in each of the following areas — I. 700–1660 A.D., II. 1660–1900, III. 1900–Present, IV. Major figure (Chaucer, Shakespeare, Milton); two courses (6 credits) in American literature, including ENG 449. Also, RDG 440, SPED 315, EDTE 315, EDSC 425, EDSC 435 and EDF 415 are required for certification.

*There is one exception to this statement that the remaining 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. All studies courses (ENG 448, 458, 449, and 488) may be taken twice under a different topic.) Further substitutions within area requirements are permitted only with prior approval of the advisor and the department chair.

Major in English, B.S. (Appropriate for certification in elementary education) 39 credits as follows:

Core (24 credits): ENG 205, 206, 210, 211, 491, 492; LING 200, 300
Composition Sequence (6 credits): either, Expository: ENG 202, 401 or 402
Creative: two from ENG 371 or 372, 373 or 374, 376, 377
Journalism: ENG 235, 380
Directed Electives (9 credits): ENG 270 or 274; 6 credits at the 300–400 level in British, American and/or world literature or ENG 220, selected in consultation with advisor. SPED 315 is required for certification.

For certification in elementary education, primary subject matter area in English:* 24 credits, as follows: ENG 205, 206, 210, 211, 270 or 274, 491, LING 230; 3 elective credits at the 300/400 level in British, American or world literature or ENG 220, selected in consultation with an advisor. See Department for details.

Minor in English

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.

Minor in Writing

21 credits as follows: ENG 110, 401, LING 230 and 12 credits elected from ENG 235, 236, 371, 372, 373, 374, 376, 377, 378, 380, 381, 382, 403; MC 207.

Minor in Journalism

21 credits as follows: ENG 110, 235, 236 and 12 credits elected from ENG 380, 381, 382, 412, 416, 418, 495.

Minor in Creative Writing

18 credits as follows: 9 credits in a single sequence: ENG 373, 374, 485 (poetry); 371, 372, 484 (fiction); 370, 375, 376, 382 (non-fiction). 9 credits elected from: ENG 370, 371, 372, 373, 374, 375, 376, 377, 378, 382, 484, 485, 494 (a minimum of one course is required in a genre other than the selected sequence). No repetition of courses is allowed, with the exception of ENG 378 (Special Topics). Consultation with a Creative Writing faculty member is required for the program and selection of all courses.

Minor in Descriptive Linguistics

21 credits as follows: LING 200, 230, 300, 400 and any three of the following— LING 312, 313, 430, 431, 497.

Minor in TESOL

(For students completing elementary or secondary certificates) 21 credits as follows: LING 200, 230, 496, 497 and any three of the following— LING 312, 313, 400, 430, 431; SOC 322; ANTH 170, 352.

Minor in Language and Computation

24 credits as follows: LING 200, 312, 313, 433, 434, and 9 credits elected from LING 300, PSY 281, CS 290, PHIL 220, STAT 104, MATH 218, LING 400, CS 407, PHIL 320, STAT 315, LING 430, CS 462, CS 464, STAT 476, or a course related to the content of the minor and with the consent of an advisor.

Complementary Subject Matter Area in English/Linguistics:*

18 credits, as follows: LING 200, 230, 300, 430 and 431; either an approved elective or a second topic under LING 430.

Complementary Subject Matter Area in English/Writing:*

18 credits, as follows: ENG 202, 401 and 403; 9 credits in either Journalism (ENG 235, 236, 380, 381, 382, 416 or 418) or in Creative Writing (ENG 371, 372, 373, 374, 376, 377 or 378).

*Please consult with the School of Education and Professional Studies concerning additional requirements for dual subject programs and interdisciplinary majors.

Geography

B. J. Sommers, *Chair*; R. W. Benfield, J. E. Harmon, P. A. K. Kyem, C. Pope, T. Rickard, X. Shen, D. Truly (*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. The department also provides internships for students in a variety of town,

regional, state and private agencies and offers consulting services, workshops and short courses as part of its outreach program.

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

36 or 39 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 and 9 credits from GEOG 430, 433, 445, 472 and 473, plus any 300- or 400-level Geography course. 9 credits of this program may be used to fulfill the requirements of the core.

Techniques: GEOG 256, 266, 276, 378, 379, 430 or other course selected in consultation with faculty advisor, and 6 credits from other Geographic Techniques courses. 3 credits of this program may be used to fulfill requirements of the core.

Tourism: 15 credits from GEOG 290, 291, 450, 451, 453, 454 or 455; two courses in regional geography at the 300- or 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 requirements of the core (39 credits total).

General/Regional: 18 credits of Geography electives, at least nine of which must be at the 400-level. All elementary education students selecting this program will take GEOG 414 as one of their 3-credit electives in geography.

Geography Course Groups. Physical geography courses: GEOG 272, 275, 374, 472, 473; cultural geography courses: GEOG 220, 223, 244, 270, 290, 291, 433, 451, 453, 454, 455, 471; geographic techniques courses: GEOG 256, 266, 276, 378, 442, 476, 478; planning courses: GEOG 241, 420, 439, 440, 441, 445, 450, 483; and regional geography courses: GEOG 120, 330, 434, 435, 436, 437, 446, 448, 452, 459.

Acceptable substitutes for GEOG 425 or 430 will be jointly determined by student and advisor. When approved in advance by the student's advisor, 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. All elementary education students selecting geography as their single subject matter area will take GEOG 414, with this course counting as a geography elective. Please consult with the School of Education and Professional Studies concerning additional education requirements.

Completion of a minor in another discipline is required, except for elementary education students. Certain minors are especially recommended by the department, depending on the career track chosen by the student. We also encourage participation in CCSU'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 439, 440, 445, 450 or 483; 3 credits from GEOG 244, 272, or 275; and GEOG 420. A minor in another discipline acceptable to the student's advisor is required. STAT 104 or 215 (Skill Area 2) is also required.

Minor in Geography with a Specialization in Planning

18 credits in Geography as follows: GEOG 110, 241, 441; 6 credits from GEOG 272 and/or any geographic techniques course; 3 credits from any 400-level planning course (see Geography Course Groups above).

Minor in Environmental Geography

18 credits in Geography as follows: 3 credits in GEOG 110; 3 credits from GEOG 256, 266, 276, 378/379, or 442; 6 credits from GEOG 270, 272, 275, 374; and 6 credits from GEOG 433, 445, 472, 473.

Minor in Geography

18 credits in Geography as follows: GEOG 110 or 120; and 15 credits of Geography electives. At least 6 credit hours must be in courses at the 300- or 400-level. We recommend that these electives include one course from each group listed in the Geography Course Groups.

Minor in Tourism

18 credits in Geography as follows: GEOG 110 or 120, 290; 3 credits from any regional Geography course and 9 credits selected from these courses: GEOG 291, 450, 451, 453, 454, 455. Courses used to satisfy this minor may not be used to satisfy the requirements of any major in Geography. Students selecting this minor must consult with the department chair.

Major in Social Science with Minor 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, three 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.

26 credits from EDTE 315, SPED 315, EDSC 425, EDSC 435, EDF 415, EDT 315, RDG 440. In addition, students must take SSCI 415, 421 and PSY 236.

18 credits in Geography, as specified by the requirements for the minor 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. Those who wish to teach geography or social studies at the middle level should complete the following:

For certification in elementary or middle level education, Complementary Subject matter Area in Geography:

Complements Primary Subject Matter Area in English at the elementary level, and English, General Science or Mathematics at the middle level. 18 credits, as follows: GEOG 120, 220, 330; one of GEOG 272, 275, 374, or 433; and six credits in geography electives (at least three of which must be at 400 level). All education students selecting geography as a complementary subject matter area will also enroll in GEOG 414; Elementary-level (1-6) students will enroll for 3 credits and may use the course as one of the two geography electives. Middle-level (4-8) students will enroll for 2 credits in addition to the 18 hours specified above, using GEOG 414 as their complementary methods course. Please consult with the School of Education and Professional Studies concerning additional requirements for dual subject programs and interdisciplinary majors.

History

R. Wolff, *Chair*; J. Bergman, M. B. Biskupski, G. T. Emeagwali, B. Greenfield, K. Hermes, M. Jones, E. Kapetanopoulos (*Interim Chair, 2003–04*), M. Mahoney, N. H. Mezvinsky, H. Munro Prescott, G. Sunshine, M. Warshauer, L. Williams (*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; HIST 301 or HIST 310 (taken prior to, or concurrently with, first 400-level history course); HIST 490 (taken after 24 credits of History courses, including HIST 301 or 310 and 6 credits of History courses at 400-level); 12 credits in the primary area of concentration; 6 credits in the secondary; and 3 credits of elective. 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 a course within an area of concentration or through an elective. The areas of concentration are: Ancient and Medieval, Medieval and Modern Europe, United States, East Asia and Pacific Rim, Africa and the African Diaspora, Latin America, and Public History.

Each year, the History honor society, *Phi Alpha Theta*, offers the Theodore Paullin Prize for historical scholarship to an outstanding history major.

Major in History, B.S. (Certifiable for secondary teaching of history and social studies) 57 credits as follows:

a. 39 credits in History including HIST 121 or 142, and 122 or 143, 261, 262, 301 or 310 (taken prior to, or concurrently with, first 400-level history course); HIST 490 (taken after 24 credits of History courses, including HIST 301 or 310 and 6 credits of History courses at 400-level); 12 credits in the primary areas of concentration; 6 credits in the secondary; and 3 credits of electives. All History majors must take at least one course dealing with the non-western world.

12 credits must be completed in 400-level history courses. One course dealing with the non-western world, selected from the current state list, must also be completed. The areas of concentration in the major areas are: Ancient and Medieval, Medieval and Modern Europe, United

States, East Asia and Pacific Rim, Africa and the African Diaspora, Latin America, and Public History.

b. 18 credits in Social Science consisting of PS 104 or 110; ECON 200 or 201; GEOG 110 or 120; PSY 112; ANTH 140; SOC 110.

In addition, students must complete SSCI 415, SSCI 421, EDTE 316, EDT 315, RDG 440, EDF 415, EDSC 425, EDSC 435, SPED 315.

No minor 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 additional course requirements in Education consult with the School of Education and Professional Studies.

Minor in History

18 credits of History, including HIST 121 or 142, 122 or 143, and 301 or 310. 6 credits must be taken in 400-level courses at Central Connecticut State.

For certification in elementary or middle level education, Primary Subject Matter Area in History:

24 credits, as follows: HIST 261 and 262; HIST 301 or 310; 6 credits from one of the following sequences: HIST 341/342, HIST 351/352, HIST 375/376, HIST 381/382, HIST 442/443/444; 6 credits of American history from the following: HIST 423, 424, 425, 426, 427, 428; and 3 credits of history electives. Please consult with the School of Education and Professional Studies concerning additional requirements for dual subject programs and interdisciplinary majors.

Mathematical Sciences

T. V. Craine, *Chair*; F. Bensics, N. Castaneda, Y. Chen, P. A. Coe, R. Crouse, I. Gotchev, S. L. Gould, P. Halloran, C. Jin, R. S. Kalder, D. J. Kelly, D. T. Larose, S. Lesik, S. Mathur, J. McGowan, A. Miller, D. S. Miller, M. Mitchell, N. Padma, L. Paoletti, L. Recoder-Núñez, A. Shaw, C. D. Smith, C. Waiveris (*Dept. phone 832-2835*)

Major in Mathematics, B.A.

38 credits in Mathematics and related courses including: MATH 152, 218, 221,

222, 228 and 366. The remaining 15 credits may be selected from MATH 300, 320, 398, 440, 463, 468, 469, 470, 477, 491; STAT 315, 416, 425, 455, 456, 465, 476; ACTL 465, 480, 481, 482. In addition, two laboratory science courses are required.

Note: CS 151 is strongly recommended.

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

58 credits in Mathematics and related courses as follows.

Core (40 credits): MATH 152, 218, 221, 222, 228; STAT 315, 416, 425; ACTL 335, 465, 466.

Electives (18 credits) as approved by advisor:
6–12 credits chosen from ACTL 480, 481, 482; MATH 300.

6–12 credits chosen from AC 211, 212; CS 151, 152, 213, 473; ECON 300, 305; FIN 295, 320, 410, 421; LAW 250; MGT 295.

Note: ECON 200 and 201 are strongly recommended.

Note: No minor is required for students selecting this major.

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

54 credits in Mathematics and related courses including: MATH 152, 218, 221, 222, 228, 366, 470; STAT 315, 416; ECON 200, 201, 305, 460, 485. The remaining 7 credits may be selected from MATH 300, 477; STAT 455, 456; Economics courses acceptable toward the B.A. Economics major (ECON 470 strongly recommended); CS 151 (strongly recommended), 152, 253, 473. No minor 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 152, 218, 221, 222, 228, 366; STAT 215, 315, 416; STAT 216 or 453; two courses chosen from STAT 455, 456, 465 and MATH 470. The remaining 17 credits may be selected from the courses listed above or MATH 300, 463, 491; CS 151 (strongly recommended), 152, 253, 473; BIO 405; ECON 460, 485; GEOG 476; PSY 222, 351. No minor is required for students choosing this major.

Major in Mathematics, B.S. (Certifiable for secondary teaching)
48 credits in Mathematics as follows: MATH 120, 152, 218, 220, 221, 228, 313, 320, 323, 327, 328, 366, 411, 413, 426; STAT 314; 6 credits of either Mathematics and/or Statistics electives as approved by faculty advisor.

The following courses may not be counted toward the requirements for the Mathematics major, B.S. certifiable for secondary teaching: MATH 099, 101, 105, 110, 113, 115, 119, 121, 123, 124, 125, 135, 136, 213, 305, 306, 307, 409, 410, 412, 449 and STAT 104.

In addition, the student is required to take CHEM 121 and 122 or PHYS 125 and 126 and either CS 151 or 213. No minor is required for students with this major. 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 advisor and filed with the advisor and the department chair prior to the student's acceptance into the Professional Program in Teacher Education. In addition, students must take SPED 315, EDTE 316, RDG 440, EDF 415, EDSC 425 and EDSC 435.

Major in Mathematics, B.S. (Certifiable for elementary teaching)
33 credits as follows: a) Core: 21–22 credits from MATH 113, 213, 305, 306, 409; STAT 215; and MATH 125 or 152. b) Directed electives: 11–12 credits from MATH 110, 115, 119, 120, 121, 218, 221, 307, 344, 411, 421, STAT 216.

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

Minor in Mathematics (For students completing secondary certificates)
18–19 credits in Mathematics as follows: MATH 152, 218, 221, either MATH 228 or 366, and STAT 314.

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 Praxis II examination.

Minor in Mathematics (Non-Teaching)
19–20 credits in Mathematics, as follows: MATH 152, 218, 221, 222, 228 or 366.

Minor in Mathematics (For B.S. Physics Majors)
18–19 credits in Mathematics as follows: MATH 218, 221, 222, 463 and either MATH 228 or 491.

Minor in Statistics
21 credits, including STAT 215, 216, CS 151; three courses chosen from MATH 110, 470, STAT 455, 456, 465, 476; one course chosen from the courses listed above or CS 473; BIO 405; ECON 460, 485; GEOG 476; PSY 222, 351.

Note: At most, one course may be used in both the student's major program and the minor in Statistics.

Official Certificate Program: Certificate in Data Mining (OCP 102)

Admission criteria: Approval of the Department of Mathematical Sciences.

Required courses (12 cr):
STAT 321, 322, 323 and CS 290.
Prospective students to the Certificate in Data Mining program are expected to have completed, or be in the process of completing, MATH 152 and 218; CS 151; and either STAT 201, 216, 416 or 453. These prerequisite courses will be offered regularly in the classroom, and some may be offered online, for students who are missing one or more of these courses.

Note: New students may take the first course in the program while working on the prerequisites for the more advanced courses. The program will be made available both in the classroom and online.

For certification in elementary, early childhood or middle level education, Primary Subject Matter Area in Mathematics:

24–26 credits, as follows: MATH 113, 213, 305, 306, 409, and STAT 215; MATH 115 or MATH 119; MATH 125 or MATH 152. Please consult with the School of Education and Professional Studies concerning additional requirements for dual subject programs and interdisciplinary majors.

Modern Languages

L. Auld, *Chair*; G.M. Caliendo, E. Force, A. García-Lozada, P. Lapuerta, C. S. Lien, G. Mejía, A. Morales, M. Passaro, C. Pesca-Cupolo, S. Tomoda, L. Uribe (*Dept. phone 832-2875*)

Major in French, German, Italian, B.A.
30 credits as follows: FR, GER, ITAL 125, 126, 225, 226, 305 (FR 302), 315, 316, 360 (FR 301, ITAL 304) and 6 credits of directed electives.

Major in Spanish, B.A.
30 credits as follows: SPAN 125, 126, 225 and 226 for non-native speakers or SPAN 190, 191, 290 and 291 for native speakers; 15 credits from SPAN 300, 304 or 305, 315, 316, 375 or 376; and 3 credits of directed electives, selected in consultation with advisor. For students with advanced preparation, appropriate substitutions will be made.

Major in French, German, Italian, B.S. (Certifiable for secondary teaching)
36 credits as follows: FR, GER, ITAL 125, 126, 225, 226, 360 (FR 301, ITAL 304), 305 (FR 302), 315, 316, 335, 336; and 6 credits of directed electives. In addition, students must take EDTE 315, EDF 415, SPED 315, EDSC 425, EDSC 435, ML 429, ML 440, EDT 315 and RDG 440. For students with advanced preparation, appropriate substitutions will be made. No minor required.

Major in Spanish, B.S. (Certifiable for secondary teaching)
36 credits as follows: SPAN 125, 126, 225, 226 for non-native speakers or SPAN 190, 191, 290 and 291 for native speakers; SPAN 305, 315, 316, 335, 336, 376; and 6 credits of directed electives. In addition, students must take EDTE 315, EDF 415, SPED 315, EDSC 425, EDSC 435, ML 429, ML 440, EDT 315 and RDG 440. For students with advanced preparation, appropriate substitutions will be made. No minor required.

International Studies Major

In consultation with the program advisor, students may pursue a program focusing on an area within the framework of the International Studies major. For additional information, see International and Area Studies.

Minor in Modern Language

18 credits as follows: FR, GER, ITAL, or SPAN 125, 126, 225, 226 (or SPAN 190, 191, 290, 291 for native speakers) and 6 credits of directed electives.

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

In Japanese, students must take JAPN 125, 126, 225, 226; and 6 credits from JAPN 335, 336; HIST 454; GEOG 435.

LANGUAGE PLACEMENT EXAMINATION

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

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; they should take the exam if they expect to continue study in that language.

To register for an elementary language course, numbered 111 or 118, students may have no more than one year previous study of that language.

Music

P. Perry, *Chair*; D. D'Addio, R. Glarner, C. Knox, L. Laurent, C. Menoche, C. Parr, J. Ribchinsky (*Dept. phone 832-2912; fax: 832-2902*)

Adjunct faculty specializations include bass, bassoon, clarinet, composition, computer technology, flute, guitar, harp, horn, oboe, organ, piano, trombone, tuba, violin, voice.

To enroll as a Music major, all students must apply separately to the Music Department. Call the Department for an application. Entrance auditions, along with a theory placement test, will be administered by members of the Music faculty. Students with deficiencies in theory and/or piano may be required to take remedial courses which would not be credited toward the degree.

Major in Music, B.A.

60 credits as follows:

Core (24 cr.):

MUS 115, 116, 121, 122, 211, 215, 216, 221, 222, 235, 236, 335.

Specialization (36 cr.): either

1. Performance: MUS 178, 278, 378, 478 (14 cr.); MUS 140/141/142/143 (10 cr.); MUS 367/368, 380/403, 400, 404
2. Theory and Composition: MUS 177/178, 278, 378 (12 cr.); MUS 140/141/142/143 (6 cr.); MUS 367/368, 380, 390, 395, 400, 405/495, and one elective selected in consultation with advisor
3. History: MUS 177 (5 cr.); MUS 140/141/142/143 (6 cr.); MUS 400, 403/405 (9 cr.); HIST 142/143 or ART 112/113 (6 cr.); PHIL 248; and one elective selected in consultation with advisor
4. Jazz Studies: MUS 178, 278, 378, 478 (14 cr.); MUS 140/141/142/143 (8 cr.); MUS 213, 363, 364, 380, 400

Major in Music Education, B.S.

(Certifiable for K-12 teaching)

66 credits in music including: MUS 114, 115, 116, 121, 122; 6 credits in either MUS 141, 142, or 143; MUS 211, 215, 216, 221, 222, 235, 236, 259, 261, 262, 263, 264, 267, 268 and 269; MUS 335, 367, 368, and 390; and 7 semesters of MUS 178, 278, 378, 478.

Also required are 30 credits in Professional Education including MUS 101, 310, 317, MUS 402, EDSC 375, EDF 415, EDSC 420, 421; EDTE 315 and SPED 315.

Students in this program must take the following as part of their General Education requirements: HIST 261 or 262 in Study Area II, PSY 236 in Study Area III, PHYS 113 in Study Area IV, and ENG 110 in Skill Area I.

Note: This major does not require a minor.

Note: Students enrolled in MUS 177 must pay an extra fee of \$300 each semester. Students enrolled in MUS 178, 278, 378 or 478 must pay an extra fee of \$400 each semester. This fee is non-refundable and subject to change. All students enrolled in MUS 178, 278, 378 or 478 must perform in one student recital per year.

All music majors are required to enroll in MUS 090 every semester except while enrolled in either EDSC 420/421 or MUS 400.

Effective in the Spring 2003, all students must be enrolled in a major ensemble every semester in which they are enrolled as full-time Music majors except the semester they student teach. All part-time students must be enrolled in a major ensemble for six semesters. The Department of Music reserves the right to assign students to major ensembles.

All music majors (B.A. and B.S. candidates) must successfully complete all portions of the Sophomore Review, which includes a written theory test, sight-singing and piano proficiency. No student will be allowed to proceed to a 300-level music course until the Sophomore Review has been successfully completed.

The piano proficiency 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 begin taking this exam during their sophomore 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. playing major and harmonic minor scales (up to 4 sharps and flats), two octaves, hands together
2. playing three intermediate-level pieces from the recommended list, 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. sight-reading a simple piano piece and an accompaniment

Minor in Music

Students planning to minor in Music must consult the department chair for assignment of an advisor.

18 credits in Music, as follows:

Area I: 9 credits from MUS 110, 111, 112, 115, 116, 121, 122, 221

Area II: 5 credits from MUS 250, 251, 264, 350, 351, 363, 364, 380

Area III: 4 credits from MUS 140, 141, 142, 143, 177

Philosophy

J. McKeon, *Chair*; D. Adams, F. Best, D. Blitz, P. English, E. Godway, A. P. Iannone (*Dept. phone 832-2915*). Cross appointed: B. O'Connell (Computer Science)

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 of Philosophy offers undergraduate major and minor programs with a broad spectrum of courses reflecting the diversity of Western and non-Western thought. Majors select two specializations and minors select one specialization from among the following: (1) History of Western Philosophy, (2) African, African-American and Asian Philosophy, (3) Logic and Philosophy of Science, (4) Continental Philosophy, (5) Theoretical and Practical Ethics and (6) Philosophy of Religion and Religious Studies. The Department offers its majors the opportunity to write an undergraduate thesis, supervised by a member of the Department. In addition, the Department is responsible for interdisciplinary minors in Religious Studies and in African-American Studies, and is an active participant in the University Honors 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.

Thirty-nine (39) credits as follows: Core Curriculum (15 credits): PHIL 112, 220, 290, either 230 or 330, 400

Specializations (two required with at least 6 credits at 300-level or higher in each) (12 credits):

(a) **History of Philosophy:** PHIL 230, 232, 330, 332, 368

(b) **African, African-American and Asian Philosophy:** AFAM 110, PHIL 250, 260, 275, 360

(c) **Logic and Philosophy of Science:**

PHIL 135, 235, 320, 335

(d) **Continental Philosophy:** PHIL 222, 248, 332, 366, 368

(e) **Theoretical and Practical Ethics:** PHIL 240, 241, 242, 346, 349, 440; HHSP 246, 341, 342

(f) **Philosophy of Religion and Religious Studies:** REL 105 or 110, 256, 257, 361, PHIL 232, 250, 255, 376, and courses listed under the minor in Religious Studies

Note: If PHIL 400 is taken more than once, the additional credit will be counted in a specialization.

Note: Any specialization course(s) taken to fulfill the Core Curriculum will be replaced by directed elective(s) selected in consultation with advisor.

Note: PHIL 382, 441 or 492 may be included in a specialization if approved by the faculty advisor.

Minor in Philosophy

Eighteen (18) credits as follows:

PHIL 112, 220, 290, either 230 or 330, and 6 credits of PHIL or REL electives listed in the specializations for philosophy majors (at least 3 credits of 300-level or higher).

Physics and Earth Sciences

A. Antar, *Chair*; C. Baskerville, M. Bednarski, K. Larsen, P. LeMaire, S. B. Newman, N. Parikh, T. A. Roman, N. Sadanand, L. Tongson (*Dept. phone 832-2930*)

Located in Copernicus Hall, the facilities of the Physics and 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 pursues 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 ongoing studies in these and other areas.

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

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

39 credits in Physics, including: PHYS 125, 126, 220, 250, 305, 320, 325, 331, 350, 425, 450, 460, 470 and 471. In addition, the student must take CHEM 121 and 122 and MATH 152, 221 and 222. Completion of a minor is required, and for students planning graduate work a year of French, German or Russian should be taken.

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

30 credits in the Earth Sciences are required, including ESCI 121, 122, 123, 129, 178 or 179, and 460. The remaining 13 hours of Earth Science shall be elected from the following: ESCI 218, 221, 222, 278, 330, 342, 421, 424, 430, 431, 442, 450, 462 or GEOG 374.

In addition, CHEM 121, 122; PHYS 121, 122; and MATH 152, 221 are required.

Note: A minor is not required except for those in the general (i.e., non-specific track) program.

Note: A year of French, German or Russian is recommended if graduate study is being contemplated.

Major in Physics, B.S. (Certifiable for secondary teaching)

33 credits in Physics: PHYS 125, 126, 220, 250, 305, 320, 331, 350, 325, 425, 450 and 470. In addition, the student must take BIO 121; CHEM 121 and 122; EDTE 315; EDF 415; SPED 315; EDSC 425, 435; RDG 440; SCI 416, 417, 419; MATH 152, 221 and 222.

Minor in Physics (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 152, 221, 222 and SCI 417.

Major in Earth Sciences, B.S. (Certifiable for secondary teaching)
30 credits in Earth Sciences, including ESCI 121, 122, 123, 129, 178 or 179, 430, and other electives as approved by faculty advisor. In addition, the student must take CHEM 121, 122; PHYS 121, 122; BIO 121, 122; EDTE 315; EDF 415; SPED 315; EDSC 425, 435; RDG 440; SCI 416, 417, 419; and MATH 152, 221.

Minor in Earth Sciences (Certifiable for secondary teaching) Subject to change.
20 credits in Earth Sciences, including ESCI 121, 122, 123, 129, 178 or 179, and other electives as approved by faculty advisor. In addition, a student must take SCI 416, 417, 419; MATH 152, 221; and PHYS 121, 122.

Interdisciplinary Major — Sciences with Specialization in Earth Sciences, B.S.
(Acceptable for certification in elementary education)
39 credits. For course listing, see major in Interdisciplinary Sciences, page 57.

Minor in Physics
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 advisor. In addition, the student must take MATH 152, 221 and 222.

Minor in Meteorology
18 credits in Earth Sciences and related fields including: ESCI 129, 461 and 462. The remaining 8 credits will be chosen from ESCI 342, 430, 442, GEOG 374. In addition, the student must take MATH 152, 221.

Minor in Geology
18 credits in Earth Sciences, including: ESCI 121, 122, 123, 221, 222 and one course from ESCI 421, 424 and 450.

Minor in Astronomy
18 credits in Astronomy and related fields, including ESCI 178, 179, 278 and 330. The remaining course will be selected from PHYS 220, 325 or 425 after consultation with an Earth Sciences Department advisor. In addition, the student must take MATH 152, 221 and PHYS 121, 122.

For certification in elementary or middle level education, Complementary Subject Matter Area in Earth Sciences:
18/19 credits, as follows: ESCI 111, 121, 123 and 129; two courses from the follow-

ing, one of which must be either ESCI 178 or 179; ESCI 122, 178, 179, 222, 278 or 424. Please consult with the School of Education and Professional Studies concerning additional requirements for dual subject programs and interdisciplinary majors.

Political Science

P. Petterson, *Chair*; W. Brown Foster, J. Duquette, G. El-Eid, A. C. Moran, A. G. Smith, M. A. Triebwasser (*Dept. phone 832-2967*)

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 five areas— American Government and Politics; Political Theory; Comparative Government; International Relations and Organization; Public Law, Methodology and Organizational Behavior. COMM 360 may be applied to the 36-credit Political Science requirement, as well as 6 credits from the fields of history, sociology, psychology, economics, geography, mathematics and statistics, when approved in advance by the departmental chair.

Major in Political Science with Specialization in Public Administration, B.A.
36 credits in Political Science, as follows: PS 110, 230, 260, 344, 446, 450; 6 credits from PS 480/481 or 482/483 or 490/491, or approved 400-level courses in Political Science or other fields. 12 credits of electives from Political Science, or from fields directly related to Public Administration, with prior approval of the department advisor. Particularly appropriate electives are PS 315, 330, 331 or 332, 335, 430 and 431. Students must also complete a minor in an area relevant to Public Administration.

Minor in Political Science
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.

Minor in Political Science (For students completing secondary certification)
18 credits, including PS 104 or 110. Credit for not more than 6 credits towards a Political Science minor may be granted, with approval of the department chair, from those areas listed as options under the major.

Note: Credit will be given for COMM 360 in any of the above programs.

Psychology

F. Donis, *Chair*; C. Shaw Austad, L. Bowman, A. Chavarro, P. Chu, J. Conway, J. DiPlacido, D. Engwall, C. A. Ford, M. B. Goldstein, S. W. Horowitz, L. Levine, C. C. Mate-Kole, L. Perdue, M. Salinas, B. Waite (*Dept. phone 832-3100*)

The Department of Psychology offers courses leading to the bachelor of arts degree. The Psychology curriculum provides students with a broad view of the field, its methods of study and the various specialties of modern psychology.

Many psychology majors may wish to continue their studies in graduate or professional schools of psychology. Others enroll in non-psychology Professional Programs such as law, education or social work. 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. Psychology provides a vehicle for personal development and an avenue for pursuing a liberal arts education. 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 supports and encourages student 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.

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

Major in Psychology, B.A.
40 credits in Psychology, including the following required courses: PSY 112, 113, 221, 222, 236, 330 and 490. One course is required from each of the following cate-

gories: Social/Personality, PSY 372 or 470; Biological, PSY 342 or 450; Experimental, PSY 200, 281 or 440; Diversity, PSY 350 or 430 and 9 credits of Psychology electives.

In addition, in order to graduate, students must take a Standardized Psychology outcomes test. The test will be administered by the department twice each semester; students may take the test only once.

Note: PSY 112 (C or higher) and STAT 215 (C or higher) are prerequisites for PSY 221.

Minor in Psychology

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

Minor in Psychology, Special Education

18 credits, as follows: PSY 112, 200 and 236; any three courses from PSY 281, 330, 362, 363, 365, 372, 380, 446, 454, 470.

Minor in Gerontology

18 credits as follows: HHSP 342; PSY 364, 458; one three-hour practicum chosen from PHIL 440, PSY 496, PE 450 or 470, BIO 390; and 6 credits of electives chosen from HHSP 490, PE 215, PSY 380, SOC 340, SOC 440, BIO 401.

Human Growth and Development Program for Early Childhood (N-3) Certification

18 credits as follows: PSY 112, 200, 239, 365, 462 and SOC 233. Please consult with the School of Education and Professional Studies for additional requirements.

Science and Science Education

Interdepartmental Staff

Advisors — M. Bednarski, J. Jarrett

Major in Interdisciplinary Sciences, B.S.

(a) Specialization in Integrated Science (Certifiable for secondary teaching)

56–59 credits as follows:

1. Science and Mathematics Core (46 credits): BIO 121, 122; CHEM 121, 122; ESCI 121, 123, 129, 178 or 179; PHYS 121, 122; MATH 121, 152; SCI 420
2. Track (10–13 credits), one of the following:

Physics: PHYS 125, 126, 220, 305, 325, 320 or 331, MATH 221, 222

Earth Sciences: ESCI 122, 221 or 278 or 342, 430

Chemistry: CHEM 238 or 301, 311, 312

Biology: BIO 201, 202, one BIO course at 300 or 400 level

In addition, students must take EDTE 315; EDF 415; SPED 315; EDSC 425, 435; SCI 416, 417, 419; RDG 440.

(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 which are approved for majors and minors in those fields. MATH 121, 152, 221 are also required. A minor is not required.

(c) Specialization in Environmental Interpretation

53–57 credits in the Natural Sciences, or in approved areas, including the following:

1. BIO 121, 122, 202; 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, 424, 450.
3. Structured elective component — Life Sciences. Two courses from the following: BIO 120, 150, 201, 321, 322, 326, 327, 405, 420, 425, 444, 480, selected in consultation with an advisor.
4. Electives. In lieu of a minor at least 15 credits, with the advisor'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, 422; SCI 518.

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.

Note: S. Burns, J. Jarrett and L. Carluccio are members of the advisory committee for this program.

(d) Specialization in Biology or Earth Sciences (Acceptable major for certification programs in elementary education)

39–42 credits. Core: 24–32 credits. Required: Physics (6–8 credits), PHYS 111/113 or 121/122 or 125/126; Chemistry (6–8 credits), CHEM 102, 111

or CHEM 121, 122; Biology (6–8 credits), BIO 111, 211, 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:

Biology — Requires BIO 121, 122 as core courses. 10–15 credits including BIO 201, 202 and elective(s) at the 300 or 400 level selected in consultation with an advisor.

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

Minor in Science

24 credits as follows: 12–16 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 (Certifiable for secondary teaching)

Restricted to students with a major in Biology, Chemistry, Earth Science or Physics.

32 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 325. SCI 416, 417 and 419 are required.

Social Sciences

Contact the Chair of the History Dept. (832-2800).

Major in Social Sciences, B.S. (Certifiable for secondary teaching)

54 credits as follows: 18 credits in History: HIST 121 or 142; 122 or 143; 261 and 262; 301 or 310; and 3 elective credits in non-western history.

18 credits in one social science discipline (anthropology, economics, geography, political science or sociology) as required by that department for a minor for secondary certificate students.

18 credits in social science (not to be duplicative of the second category above) consisting of PS 104 or 110; ECON 200 or

201; GEOG 110 or 120; PSY 112; ANTH 140; SOC 110.

In addition, students must complete SSCI 415, SSCI 421, SPED 315, EDTE 315, EDT 315, RDG 440, EDF 415, EDSC 425 and EDSC 435, as well as PSY 236. No minor is required.

Social Work

B. A. Candales, *Director*; C. R. Baratta, P. Hensley (*Dept. phone 832-3129*)

Major in Social Work, B.A.

General Program:

51 credits as follows: 42 credits in Social Work core courses including SW 226, 227, 360, 361, 362, 368, 374, 426, 450, 451, 452, 453; 6 credits of social work electives; and 9 credits of related courses including SOC 110 or ANTH 140; SOC 111, 233. Social Work majors are also required to complete the following as part of their general education requirements: BIO 111; PS 110 or 230; ECON 200 and STAT 215.

Note: This major does not require a minor.

The Social Work Program is accredited at the undergraduate level by the Council on Social Work Education. The purpose of the Social Work major is to prepare students for beginning generalist social work practice. 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 when they have completed SW 226 and 227. Applications from all students will be taken October 1 and 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 2.50 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 University as Pre-Social Work majors take the beginning courses with the expectation of continuing into the Social Work major. However, it is possible that the student and/or instructor conclude that a student is not fully motivated toward an understand-

ing of the professional, as well as the academic, responsibilities this major requires. If a student does not meet academic or professional standards (as a Pre-Social Work or Social Work major), 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.

The Social Work Program is a member of Phi Alpha Honor Society. The chapter name is Chi Upsilon.

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

J. R. Mitrano, *Chair*; S. Adair, B. Day, M. Erdmans, J. Greenebaum, R. White (*Dept. Phone: 832-3135*)

Sociology is the study of how our personal, everyday experiences affect and are affected by the larger society in which we live. The Department of Sociology and Social Work provides students with a firm understanding of the complex social structures and processes which connect their private lives and experiences to their present society. Our goal is to prepare students to become thoughtful and engaged citizens in a complex and interdependent world. Specifically, the mission of the Department is to foster logical and analytical reasoning, the development of a socio/historical consciousness, an understanding of values and needs and their relationship to a variety of life situations, and the understanding of social scientific inquiry.

Major in Sociology, B.A.

The major in Sociology requires 40 credits in Sociology, including seven required core courses that enable students to acquire fundamental analytical research skills and theoretical perspectives of the discipline.

The core courses are SOC 110, 210, 212, 300, 310, either 410 or 412 and 495. Students additionally select 21 credits of Sociology electives, 12 of which must be at the 300- and/or 400-level, and no more than

6 credits at the 100-level. Students are also required to take STAT 215. Substantive areas of study should be developed in conjunction with the student's departmental advisor. Independent studies and internship opportunities are available to qualified majors.

The Department of Sociology and Social Work's curriculum prepares its majors for responsible positions in a wide variety of careers. Many graduates have taken positions in market research firms, social work and social service agencies and human resources departments, as well as in numerous non- and for-profit businesses and organizations. Some graduates have chosen to pursue graduate degrees in fields such as law, business, social work and sociology.

Students wishing to major in Sociology are required to meet with the Department Chair to pick up introductory materials and information, as well as to be assigned a faculty advisor.

Students should note that the "core" courses build skills and concepts, and majors need to take the core courses in proper sequence. Successful completion of the core requires a minimum of three semesters, and potential majors should plan accordingly.

Students are also encouraged to participate in the Sociology Club and Alpha Kappa Delta, the International Sociology Honors Society.

Minor in Sociology

Students must complete 18 credits in sociology. SOC 110 and SOC 212 are required. Of the remaining 12 credits, 6 must be at the 300 or 400 level.

Theatre

L. B. Johnson, *Chair*; T. J. Callery, Jr., T. Delventhal, C. Fellows, J. Perlstein, J. Strzemien (*Dept. phone 832-3150*)

Major in Theatre, B.F.A.

54–60 credits completed in one of the following programs:

A. **Acting.** 48 credits in Theatre as follows: TH 101 (repeated 6 times), 111 or 121, 126, 135, 145, 235, 236, 246, 253, 275, 338, 347, 375 or 376, 483, 484; and 3 credits selected from 447 or 456; 12 additional credits of Theatre electives are also required.

B. Design and Technical Theatre. 60 credits as follows:

Core (49 credits): TH 111, 115, 117, 121, 126, 211, 212, 213, 214, 217, 222, 251, 316, 318, 327, 330, 332, 375, 376; 3 credits from TH 481, 482, 486, 487

Directed Electives (11 credits):

Chosen from other theatre courses or from courses in related fields in consultation with advisor.

C. General Theatre. 60 credits in Theatre, including 29 credits required as follows: TH 101 (repeated three times), 111, 117, 121, 126, 145, 253, 375, 376, 489; 17 credits of Theatre electives and 14 credits of Theatre or related fields courses approved by the student's advisor.

D. General Theatre/Educational Theatre Emphasis (non-certification program). 60 credits in Theatre including 29 credits required as follows: TH 101 (repeated three times), 111, 117, 121, 126, 145, 253, 375, 376, 489; 18 credits in the emphasis including: TH 143, 246, 352, 465, 495, and FA 296; 13 credits of Theatre electives.

E. General Theatre/Dance Emphasis. 60 credits in Theatre including 26 credits required as follows: TH 101 (repeated three times), 110, 111, 117, 121, 126, 143, 145, 376; 18 credits of Theatre electives and 16 credits of related fields courses as follows: DAN 151, 152, 153, 157, 158, 377, TH 235, 236, 480 and MUS 109.

F. General Theatre/Directing Emphasis. 60 credits in Theatre, including 29 credits required as follows: TH 101 (repeated three times), 111, 117, 121, 126, 145, 253, 375, 376, 489; 18 credits in the emphasis, including: TH 143, 246, 347, 352, 488 (repeated for 6 credits); 13 credits of Theatre Electives.

Note: A minor is not required with this major.

Major in Theatre, B.A.

34 credits as follows:

A. Core: 22 credits including

1. TH 111, 115, 117, 121, 135, 143, 253
2. 3 credits from TH 375, 376, 489

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

1. Acting/Theatre Voice: TH / 145, 338, 246, 347*
2. Directing: TH 352, 488
3. Design/Tech: TH 115 (3 credits max.), 212, 213, 214, 217, 316, 318

4. Costuming/Makeup: TH 115, 126, 222, 327, 332, 482

5. Dance/Movement: At least 2 credits from TH 235, 236; at least 2 credits from DAN 151, 152, 153, 157, 158; and 2 credits from the above Dance/Movement courses or DAN 377

C. Electives: 6 credits of Theatre electives

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

Minor in Theatre

21 credits in Theatre, including TH 111, 117, 121, 135, 143, 253 and 3 credits from among TH 375, 376, 489.

Minor in Theatre (Performance)

21 credits in Performance, including TH 101 (3 times), TH 143, 145, 246, 347 and 6 credits from TH 115, 126, 135, 235, 447, 456, 489.

Minor in Dance

18 credits in Dance and Theatre including DAN 151, 152, 153, 157, 158, 377 and TH 117, 121, 480 and MUS 109. Not open to theatre majors.

School of Arts and Sciences Centers

The **Copernican Planetarium and Observatory** (Copernicus Hall) includes a full-function, optical planetarium which seats 108 people and is used for classes and programs for the community. The observatory, located on the roof of Copernicus Hall, is used for astronomical instruction for Physics/Earth Sciences classes. It also supports student research in astronomical photography and observation using a modern 16-inch Cassegrain reflector and other telescopes.

The **Institute for Science Education**, coordinated by the Department of Biological Sciences, offers summer courses for elementary, middle, junior high and high school science teachers. Hands-on activities that can be transferred to the classroom are emphasized. Topics have included the environment, the aquatic world, coastal ecology, science and the citizen, field biology and plants in the laboratory.

The **Polish Studies Center** (DiLoreto 208-23) was established to foster within both the Polish-American and the American com-

munities an awareness of Poland's culture, history and civilization. In 1997 Connecticut's first, and New England's second, Endowed Chair in Polish and Polish-American Studies was established at CCSU. The Center offers courses in Polish history, politics, culture and civilization, language and the Polish community in America. The Center's other resources include the Polish Heritage Book Collection, the Connecticut Polish American Archive, the Annual Fiedorczyk Lecture in Polish American Studies, the Milewski Polish Studies lecture, the Golewski Evening of Polish Culture, educational materials for teachers, movies, exhibits, scholarship aid for Polish-American students and for students pursuing Polish Studies, and the Martin and Sophie Grzyb Prize for Excellence in Polish Studies.

The **Weather Center** (Copernicus 538) 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.

Cooperative Programs

Community-Technical College Transfer Minors

By agreement between the School of Arts and Sciences and the Connecticut Community-Technical College system, students who complete an associate's degree in a professional or technical program at a Connecticut community-technical college will receive transfer credit for the courses and may apply 18–24 credits of the specialization to a minor in a B.A. or B.S. (non-teaching) degree program offered by the School of Arts and Sciences. No residency credits at Central will be required for such a minor. 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, but is not limited to, programs in Corrections and in Drug and Alcohol Rehabilitation. For information, contact the office of the Dean of Arts and Sciences, DiLoreto Hall 112.

Engineering Transfer Program

This program provides the first-year and sophomore core courses needed for a wide variety of engineering fields. Constructed in consultation with the School of Engineering at the University of Connecticut, it enables 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 University includes laboratory courses in Chemistry and Physics, Mathematics, Computer Science, CAD, 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 should consult with the committee chair at the earliest opportunity. Inquiries should be addressed to the Engineering Transfer Program, Department of Physics and Earth Sciences, Central Connecticut State University, New Britain, CT 06050 (832-2932; 832-2930).

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 University courses (PS 445, 446, 447 and 448) may be credited toward the MPA. Non-matriculated students, who have completed the B.A., may take up to three CCSU courses in the MPA program before applying for admission. 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.

Patricia Root, *Interim Dean*
 Sharon Braverman, *Assistant Dean*
 Phone: (860) 832-3205

The School of Business offers programs leading to the Bachelor of Science degree in Business Administration. Within our region we provide the opportunity for an education in the field of business that is recognized by our stakeholders for its quality. Members of the faculty, dedicated to teaching and informed by their scholarship, prepare students to be thoughtful and responsible business professionals.

The curriculum of the School of Business is designed to provide appropriate theory and practice in problem solving, critical thinking, data analysis, use of information technology, communication, teamwork, ethics, and leading and managing. Students learn to engage with others of culturally diverse backgrounds and gain a global perspective.

The School of Business offers the following majors:

- Accounting
- Finance
- International Business
- Management
- Management Information Systems
- Marketing

Admission to the School of Business

Students may apply for admittance to the School of Business as part of their application for admission to the University and choose any of the above business majors at the lower division level.

Upper Division Status: Upper division is defined as the junior and senior level coursework in the student's major. Students must apply for upper division status when they have completed or are currently enrolled in the courses that complete the lower division business requirements. This step is necessary for enrolling in the 300 and 400 level upper division business courses. Upper division status will be granted to students whose academic progress indicates likely success in completing their chosen major in business. Additionally, students accepted into the School of Business upper division must maintain a minimum 2.00 grade point aver-

age. Students whose grade point average falls below the 2.00 cumulative grade point average will be subject to dismissal from the School of Business.

Each department may set separate requirements for admission to a major. The departments are seeking evidence that a student has the verbal and mathematical abilities to successfully complete the desired program.

Further information and applications for admission for both upper and lower division status may be obtained in the Assistant Dean's office in 216 Robert C. Vance Academic Center, along with names and locations of faculty advisors in the student's major. Students are encouraged to talk with faculty members in their major departments regarding course selection and career opportunities.

Transfer Students

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

Transfer students are required to complete a minimum of 45 credits "in residence" at CCSU. A student must complete a minimum of 30 credits in residence in courses offered by the School of Business and, of those 30 credits, take a minimum of 18 credits in residence in upper-division courses approved for the chosen major in the School.

Student Advising Program

Student advising and intervention are an integral and vital component of the 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 encouraged to schedule an individual appointment in the Dean's Office to acquaint them with the academic standards and procedures. This orientation includes an overview of the School of Business, its majors and the requirements of the curriculum, and an explanation of vital offices and University departments at CCSU.

Intervention. Each semester during their lower division status, students meet with a School of Business counselor in the Dean's Office to review their course selection, to discuss grade point average requirements and to complete the admission process into

the School of Business. This careful monitoring of students' academic progress, after the completion of each semester, ensures that the students are progressing satisfactorily. If an academic problem occurs, the advisor will intervene with future course selection and facilitate an academic support program for the student.

Finally, once a student has completed 90 college credits, the student must have advance permission from the office of the Dean of the School of Business to take any additional credits at other colleges or universities and count such courses towards a major in business.

School of Business Curriculum

All School of Business majors must complete General Education requirements comprised of study and skill areas, courses in the Common Business core, courses in the chosen major and free electives. These must be taken at Central or transferred according to the Regulations for Transfer Students.

	Credits
General Education	44-46
Non-Business Electives	19-21
Total Business Requirements	57
Business Core Requirements	24
Major Course Requirements	30
(Major requirements are listed under the appropriate departments)	
Upper Division Capstone (MGT 480)	3
Total Degree Requirements	122

All General Education requirements are described elsewhere in this catalog, however, the General Education courses required specifically for Business majors as part of the lower division requirements are the following:

Study Area II	
ECON 200	Principles of Economics I*
ECON 201	Principles of Economics II*
Skill Area I	
ENG 110	Freshman Composition*
Skill Area II	
MATH 123	Applied Business Mathematics**
or	

MATH 125	Applied Calculus I**
STAT 200	Business Statistics**
STAT 201	Business Statistics II**

* lower division business requirement

**lower division business requirement; must be completed with a C- or better before enrolling in upper division business courses

Business Curriculum

Common Business Core	24 credits
Lower Division	
AC 211	Introduction to Financial Accounting
AC 212	Introduction to Managerial Accounting
MC 207	Managerial Communications
MIS 201	Introduction to Management Information Systems
FIN 295	Managerial Finance
MGT 295	Fundamentals of Management and Organizational Behavior
MKT 295	Fundamentals of Marketing
LAW 250	Legal Environment of Business

Double Major: Business students may pursue a double-major in business administration. Students should consult with the chair of the second major department early in their program. A minimum of twenty-four additional School of Business credits is required for the second major with no more than six credits being double counted in the second major. All requirements of both majors must be met.

Graduate Programs in Business

The School of Business offers the M.B.A. in International Business, the Master of Science in Business Education and Business Education certifications. See the Graduate Catalog or the Director of Graduate Business Programs for details of these programs.

Accounting

J. Walo, *Chair*; R. Blatz, S. Machuga, T. McNulty, M. Roxas, H. Shakun, J. Stoneback (*Dept. phone 832-3220*)

The accounting program prepares its graduates for advanced graduate study and professional careers in public, corporate (industrial), and governmental and other non-profit

accounting. The program provides the background necessary in such diversified areas as cost management (accounting), auditing, taxes, budgeting, systems, 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. The Accounting program also satisfies the educational requirements for eligibility to become a Certified Management Accounting and a Certified Internal Auditor.

Students must complete the Common Business Core (see column 1 on this page) of 27 credits plus an additional 30 credits of specific Accounting course work as follows:

Accounting Foundation

AC 300	Accounting Concepts and Processes
AC 301	Cost Management Systems
AC 312	Financial Reporting I
AC 313	Financial Reporting II
AC 340	Accounting Information Systems

The accounting core courses should be completed by the end of the junior year. The senior year students should select an accounting track: general track, public accounting track, managerial accounting track.

General Accounting Track

(for undecided major)

AC 401	Introduction to Income Taxation
AC 445	Auditing
Choose 3 directed electives from: AC 311, 402, 403, 404, 407, 420, 430, 455, 490; LAW 400	

Public Accounting Track

(CPA/tax orientation for careers as independent public accountants)

AC 401	Introduction to Income Taxation
AC 402	Fundamentals of Corporate Taxation
AC 445	Auditing
LAW 400	Advanced Business Law
Choose 1 directed elective from: AC 311, 403, 404, 407, 420, 430, 490	

Please note that in Connecticut CPA certification requires 150 hours of university credit, more than the 122 required for a bachelor's degree. Additional courses may be taken at the undergraduate or graduate level.

Managerial Accounting Track

(CMA/CIA orientation for careers as accountants in corporate, governmental, and not-for-profit organizations)

AC 420	Managerial Analysis and Cost Control
AC 445	Auditing
AC 401	Introduction to Income Taxation
Choose 2 directed electives from: AC 311, 430, 455, 490; FIN 301, 400	

Business Education

(Post Baccalaureate)

G. F. Claffey, *Coordinator (Phone 832-2590)*

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 undergraduates. In order to do this, it is important for students to plan their programs with the Coordinator for Business Education.

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

Finance

M. M. Cutler, *Chair*; Z. Bello, M. Charkiewicz, K. Czyrnik, S. Mackey, J. Parker, P. Root, E. Terry (*Dept. phone 832-3260*)

The Finance program prepares graduates for managerial careers and advanced study in finance. Financial professionals evaluate all business and financial risks and returns in business decisions. Using economic theory and the techniques of accounting and statistics, financial managers direct funds acquisition, funds management and investment. Graduates may pursue careers in corporate financial management, banking, insurance, investments and government.

Students in Finance must complete the 27-credit Common Business Core (see column 1 on this page) requirements plus the following 30 credits.

Finance		Credits
FIN 301	Intermediate Managerial Finance	3

FIN 310	Principles of Investments	3
FIN 320	Financial Markets and Institutions	3
Directed Finance Electives		12
Business or Economics Electives		9

Total 30

Directed Finance Electives

The Finance program requires completion of 12 credits selected from the following list of courses. Consultation with an advisor is recommended if the student wishes to pursue a specific specialization or career goal.

FIN 400	Advanced Managerial Finance	3
FIN 410	Securities Analysis	3
FIN 411	Financial Statement Analysis	3
FIN 420	Bank Management	3
FIN 421	Insurance	3
FIN 425	Financial Derivatives	3
FIN 430	International Financial Management	3
FIN 490	Independent Study in Finance	3
FIN 498	Finance Seminar	3
FIN 499	CFA Seminar	3
ECON 450	Money, Credit, and Banking	3

Total 12

Business or Economics Electives

Students must complete 9 credits of 300- or 400-level courses.

Business or Economics Electives total 9

Specialization in Investments (12 credits)

For students interested in preparing for careers in investments. Required courses include FIN 410 Securities Analysis, FIN 411 Financial Statement Analysis, and two of the following three courses: FIN 425 Financial Derivatives, FIN 499 CFA Seminar, or ECON 310 Mathematical Economics I.

International Business

W. E. Tracey, Jr., *Chair*; (Dept. phone 832-3275).

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 (see column 1 on page 62) requirements and the following 30 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 Business Functional Specialization		9
Business Electives		9
Total 30		

International Business Functional Specializations

Students will select one of the following functional specializations:

- Accounting (AC 301, 311 and 430)
- 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, 340, 350, 430, 460)
- Management Information Systems (MIS 400, 410 and 415)

Total 9

Business Electives

Students must complete 9 credits of 300- or 400-level courses offered or suggested by

the School of Business (if prerequisites are met) — only to be determined in consultation with advisor in the student's major.

Business Electives total 9

Management and Organization

W. E. Tracey, Jr., *Chair*; G. Baten, S. Cavaleri, D. S. Fearon, M. S. Kim, W. Lee, D. J. Miller, M. Mitchell, H. Ulrich (Dept. phone 832-3275)

The Management and Organization Department prepares students for the managerial dimensions of roles they will play in their careers in business, government, healthcare and not-for-profit organizations, as well as preparing students for graduate study. The program provides a basic foundation in management theory and practices. Graduates can expect to pursue careers in such diverse areas as human resources and personnel management, entrepreneurship, small business management, healthcare management, international management, not-for-profit management or other management-oriented program interests that are designed by student and faculty advisor consultation.

Students in the Management major must complete the 27-credit Common Business Core (see column 1 on page 62) requirements and the following 30 credits:

GENERAL MANAGEMENT CORE

Required in all specializations except Human Resource Management.

		Credits
MGT 345	Organizational Theory	3
MGT 348	Management Systems	3
MGT 426	Business Organizational Behavior	3
MGT 448	Integrative Business Strategy and Policy	3
General Management Core Total		12

GENERAL MANAGEMENT SPECIALIZATION:

Choose courses from the following list to fashion a Management curriculum which will satisfy career interests, such as international management, healthcare management, non-profit management or advanced study in the discipline. All students using this specialization may take courses only after meeting with a faculty advisor and adopting a planned program that must be approved by the department chair.

Specialization Courses:		
MGT 305	Human Resource Management	3
MGT 321	International Management	3
MGT 403	Social Issues for Managers	3
MGT 425	Labor/Management Relations	3
MGT 431	Compensation and Benefits	3
MGT 460	Staffing	3
MGT 462	International Human Resource Management	3
MGT 470	Organizing and Managing for Quality	3
MGT 473	Organizing and Managing for Innovation	3
MGT 481	Management of Not-for-Profit Organizations	3
MGT 490	Management Topics	3
MGT 494	Entrepreneurship	3
MGT 496	Practicum in Management and Organization	3
MGT 498	Management Seminar	3
Other courses may be selected that are consistent with career goals if such selection is in consultation with the student's advisor and approved by the department chair.		
Specialization Courses Total		9

Business Electives

Students must complete 9 credits of 300- or 400-level courses offered by the School of Business (if prerequisite(s) are met) — to be determined in consultation with advisor.

Business Electives total	9
Major Total	30

HUMAN RESOURCE MANAGEMENT

SPECIALIZATION: For students interested in preparing for careers in human resource management or personnel administration in a variety of business and non-business settings.

All students who choose the Human Resource Specialization may take courses only after meeting with a faculty advisor and adopting a planned program which must be approved by the department chair.

Human Resource Management Core:		Credits
MGT 305	Human Resource Management	3
MGT 348	Management Systems	3
or		
MGT 345	Organizational Theory	3

MGT 426	Business Organizational Behavior	3
Human Resource Management Core Total		9

Specialization Courses:

Required:		
MGT 425	Labor/Management Relations	3
MGT 431	Compensation and Benefits	3
MGT 460	Staffing	3
Plus one of these courses:		
MGT 462	International Human Resource Management	3
MGT 496	Practicum in Management and Organization	3
Specialization Courses Total		12

Business Electives

Students must complete 9 credits of 300- or 400-level courses offered by the School of Business (if prerequisite(s) are met) — to be determined in consultation with advisor in the student's major.

Business Electives total	9
Major Total	30

ENTREPRENEURSHIP SPECIALIZATION:

Prepares students for entrepreneurial careers in a new venture creation or managing family-owned or other small business enterprises. The specialization 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 field study experience.

Students must complete the School of Business 27-credit Common Business Core (see column 1 on page 62) plus the following 30 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 Studies in Entrepreneurship	3
Directed Electives		9
Business Electives		9
Total		30

Directed Business Electives

9 credits selected from the following list of courses:

	Credits	
AC 301	Cost Management Systems	3
AC 420	Managerial Analysis and Cost Control	3
FIN 301	Intermediate Managerial Finance	3
FIN 310	Principles of Investments	3
MGT 305	Human Resource Management	3
MGT 426	Business Organizational Behavior	3
MKT 305	Consumer Behavior	3
MKT 340	Product Development and Management	3
MKT 423	Marketing Research	3
MKT 430	Sales Technique and Training	3
Total		9

Business Electives

Students must complete 9 credits of 300- or 400-level courses offered by the School of Business (if prerequisite(s) are met) — only to be determined in consultation with advisor.

Business Electives total	9
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Management Information Systems

George F. Claffey, *Chair (phone 832-2590)*;
M. J. D'Onofrio, M. Gendron,
A. Jarmoszko, F. Kayal, J. Lee-Partridge,
L. Leong, O. Petkova (*Dept. phone 832-3290*)

The Management Information Systems (MIS) program prepares graduates for advanced graduate study and careers in organizations as information systems specialists focusing 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 to make decisions in the areas of accounting, finance, management and marketing of an enterprise is stressed.

Students must complete the 27-credit Common Business Core (see column 1 on page 62) requirements plus the following 30 credits:

Management Information Systems (core)		Credits
MIS 220	Contemporary Business Applications Development	3
MIS 305	Implementing an e-Business Environment	3
MIS 410	Distributed Processing — Networks and Telecommunications	3
MIS 415	Database Program Development	3
MIS 461	Structured Systems Analysis and Design in MIS	3
Directed Electives		9
Business Electives		6
Total		30

Directed Management Information Systems Electives

The Management Information Systems (MIS) program requires completion of 9 credits selected from the following list of courses. Consultation with an advisor is recommended if the student wishes to pursue a specific specialization and career goal.

	Credits	
MIS 210	Application Program Development I	3
MIS 311	Application Program Development II	3
MIS 400	Business Decision Analysis Using Knowledge Bases	3
MIS 450	Enterprise Strategies and Transformations	3
MIS 460	Emerging Technologies for Business	3
MIS 494	Independent Study in MIS	3
MIS 496	Practicum in Management Information Systems	3
MIS 498	Information and Decision Sciences Seminar	3
Total		9

Business Electives

Students must complete 6 credits of 300- or 400-level courses offered or suggested by

the School of Business (if prerequisites are met) — only to be determined in consultation with advisor in the student's major.

Business Electives total 6

Marketing

D. Scherban, *Chair*; J. Bonnici, R. A. DeCormier, A. Jackson, K. Koh, J. Lefebvre, (*Dept. Phone 832-3305; e-mail: scherband@ccsu.edu*)

The Department of Marketing offers courses leading to a Bachelor of Science degree in Business Administration. Students choosing to major in Marketing have the opportunity to develop their own Custom Tailored Marketing Program (CTMP). Non-Marketing students, choosing to minor in Marketing, may select courses that complement their major.

The Marketing Department's program provides a basic foundation in Marketing theory and practices. It prepares students for entry-level positions leading to sophisticated careers dealing with real world problems. It also provides one an opportunity to continue on to graduate study.

Marketing is a field that offers ambitious students exciting career opportunities. In fact, about a third of all employees work in a marketing related activity ranging from marketing research to customer service. Marketing professionals learn about effects on business due to changing demographics, social evolution of markets and dramatic advances in technology. They also learn about threats and opportunities presented to them by the globalization of the world economy.

The 30-credit program starts with a 9-credit marketing core covering the primary areas of Marketing. Additionally, the Marketing Department strives for quality and flexibility in their programs. To facilitate this, the Department implemented a Custom Tailored Marketing Program (CTMP). This approach is designed to allow students the opportunity to focus their education by selecting courses that best fit their interests and needs. CTMP's can be tailored for such areas as advertising, hospitality, business-to-business, international and a host of other marketing fields. Graduates can expect to pursue careers in such diverse professions as advertising, sales, research, distribution, product development, marketing management and more.

Our faculty is constantly striving to help our majors excel. As part of this endeavor, they partner with students through internships and independent studies designed to help them expand their educational experiences.

Finally, the Department places a significant emphasis on quality teaching and strongly encourages both students and faculty to do individual research and scholarship.

Marketing Core (9 credits)		Credits
MKT 305	Consumer Behavior	3
MKT 423	Marketing Research	3
MKT 450	Strategic Marketing	3

Directed Marketing Electives (15 credits)

In consultation with a faculty advisor, students complete the Marketing major by selecting five additional courses from the directed electives listed below or as approved by the department chair.

	Credits	
MKT 306	Marketing Communication	3
MKT 307	Sales Administration	3
MKT 308	Introduction to Hospitality	3
MKT 311	Retailing	3
MKT 313	Merchandising	3
MKT 321	International Marketing	3
MKT 340	Product Development and Management	3
MKT 350	Marketing Channels	3
MKT 358	Relationship Marketing	3
MKT 359	Special Events Marketing	3
MKT 375	Services Marketing	3
MKT 413	Business Marketing	3
MKT 430	Sales Technique and Training	3
MKT 443	Advanced Concepts in Retailing	3
MKT 450	Strategic Marketing	3
MKT 460	Export Marketing	3
MKT 470	Marketing Communications Campaigns	3
MKT 480	Marketing for Non-Profit Organizations	3
MKT 494	Independent Study in Marketing	3
MKT 497	Marketing Internship	3
Total		15

Business Electives (9 credits)

Students must complete 9 credits of 300- or 400-level courses offered or suggested by the School of Business (providing pre-

requisites are met) — to be determined only in consultation with advisors in the students' major. The Department considers MKT 494, 496 and 497 as business electives and offers these courses only during Winter and Summer Session.

Minors for Business Majors in Subjects Other Than Business

A student may choose a minor (at least 18 credits) in a subject from the School of Arts and Sciences or the School of Technology. A student selecting this option will have to take more than the 122 credits to graduate. The appropriate department determines the requirements for this minor.

Minors in Business for Non-Business Majors

Minors in Business require 18 credits of Business courses and may be taken by students pursuing majors other than business. Students should consult with the chair of their major department to determine if a minor is required for their program.

Minors in Business focus upon specific functional areas of business, such as accounting, entrepreneurship, finance, management, MIS or marketing. Selection of specific courses is made in consultation with a faculty advisor or chair of the appropriate department. The 18-credit minor is structured as follows:

Lower-division business core (9 credits)

Any three courses from the following: AC 211, AC 212, MC 207, MIS 201, LAW 250, FIN 200, MGT 295 or MKT 295

Upper-division functional area (9 credits)

Three courses, taken in residence, from a specific functional area: i.e., Accounting, Entrepreneurship, Finance, Management, MIS or Marketing. "Capstone" and some special project courses, such as Independent Study, may be excluded. (Prerequisites must be taken as shown for course listings given elsewhere in this catalog.)

Student Organizations

A variety of student honorary and professional organizations have been organized in the School of Business to reflect the interests of students in a professional school. Experience and leadership gained from participation in these organizations provide students with important lifetime skills. The following is a list of student organizations: Accounting Society, Dean's Student Advisory Board, Delta Mu Delta, Delta Pi Epsilon, Finance Club, Management Club and Sales Club.

SCHOOL OF EDUCATION AND PROFESSIONAL STUDIES

Ellen V. Whitford, *Dean*
Mitchell Sakofs, *Associate Dean*
Anne E. Pautz, *Assistant Dean*
Mary Pat Hager, *Associate Counselor*
Phone: (860) 832-2100

The School of Education and Professional Studies (SEPS) offers programs leading to the Bachelors of Science Degree in Education, Nursing, Exercise Science and Health Promotion, 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 seven academic departments:

- Counseling and Family Therapy
- Educational Leadership
- Nursing
- Physical Education and Health Fitness Studies
- Reading and Language Arts
- Special Education
- Teacher Education

The Departments of Educational Leadership, Counseling and Family Therapy, Special Education, and Reading and Language Arts offer graduate programs only. 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 in command of the requisite professional knowledge to be able to provide exemplary practice in their chosen field. Programs and curricula in professional schools draw their content from theoretical foundations in the arts and sciences, as well as models of best practice based on current research and effective pedagogy.

Degree Programs and Certification

To fully understand the programs in the School of Education and Professional Studies, the distinction between obtaining a degree from Central Connecticut State University and obtaining a teaching certificate from the State of Connecticut must be made. Also, it requires an understanding of the differences between completing a subject-matter major and completing 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 study. 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 study, passes required tests for teachers and is recommended by the Office of the Dean of the School of Education and Professional Studies.

Every elementary, early childhood, middle level, secondary and all-level subjects 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, early childhood, secondary and all-level subjects education.

Teacher candidates at Central Connecticut State University, in addition to acquiring a subject matter major, are required to fulfill professional course work and fieldwork experiences in education which lead to a degree in education and to certification.

Conceptual Framework

The conceptual framework serves as the guiding document that is foundational to an understanding of our programs, our philosophy, and the standards that align with our programs. Directly linked to our curriculum, the conceptual framework also provides a basis for assessment, analysis, and improvement of our program outcomes.

1. The education professional as active learner
 - a. possesses strong content knowledge in the arts and sciences,
 - b. communicates in multiple forms to diverse audiences,
 - c. possesses pedagogical knowledge for content to be taught, and
 - d. engages in habits of critical thinking and problem solving.
2. The education professional as facilitator of learning for all students
 - a. applies knowledge of human development across the life span (including physical, cognitive, social, and emotional growth),
 - b. respects and values all learners,

- c. addresses the diversity of learning environments, and
- d. understands the learning process and applies instructional and assessment strategies and technologies to facilitate learning.

3. The education professional as reflective and collaborative practitioner
 - a. makes informed and ethical decisions,
 - b. accepts responsibility for student learning,
 - c. engages in opportunities for professional growth, and
 - d. collaborates with colleagues, families, and the school community.

Title II Reporting

In response to the accountability measure mandated by Congress through its passage of Title II of the Higher Education Act of 1998, beginning April 9, 2001, all institutions of higher education in the United States enrolling students who receive assistance and have teacher preparation programs must report their teacher certification test pass rates in school catalogs and other promotional materials. Any institution that has been identified as "low performing" by the State, must also report this designation to the public.

The undergraduate teacher candidates who complete all programs at CCSU are eligible to graduate with a B.S. degree. To receive a teacher certification in Connecticut, program completers must pass Praxis II. Undergraduate teacher candidates or post-baccalaureate students who complete general education, subject-matter major and a planned Professional Program of study in teacher education are considered "program completers." Of the 295 2001–2002 program completers who took the Praxis II exam, a summary score of 94% was attained for all individual assessments, comparable to the state-wide rate of 97%.

The students who formed the 2001–2002 group of program completers finished a rigorous program of study that is widely recognized for its quality and is nationally accredited by the National Council for Accreditation of Teacher Education (NCATE). They spent many hours in pre-K–12 schools where they learned how to assess the diverse needs of students. They know the subjects they will teach; they know how to teach those sub-

jects; and they have demonstrated this through multiple assessment measures. CCSU is confident that these students are prepared to be leaders in the learning communities of Connecticut.

Undergraduate Degree Programs Leading to Teacher Certification

The following programs lead to a Bachelor of Science degree and prepare a student for teacher certification in the State of Connecticut

- Early Childhood Education
- Elementary Education
- Secondary Education in the following subjects: Biology, Chemistry, Earth Science, English, French, Integrated Science, German, Italian, Mathematics, Physics, Social Studies, Spanish
- All level subjects: Art, Music, Physical Education, Technology Education

The Business Education faculty offers programs to prepare students to teach business subjects in secondary schools. Students may complete some of their subject matter requirements while they are undergraduates. Teacher preparation coursework, 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 (832-3210).

Students who are interested in becoming special education teachers must complete teacher certification at the graduate level. Contact the Special Education Department (832-2400), or refer to the CCSU Graduate Catalog for further information.

Although requirements vary from program to program, in general each undergraduate teacher preparation program has the following characteristics and procedures:

General Education. All teacher candidates are expected to satisfy the University's general education program. Most of this work is completed during the student's first three years at CCSU, or through transfer credit.

Subject Matter Majors. All teacher candidates are required to complete a subject matter major. These requirements vary from subject to subject and are described in the Arts and Science and Technology sections of this catalog.

Selective Admission to a Teacher Preparation Professional Program. The State of Connecticut requires that students

be admitted to teacher preparation programs only after they have met admission criteria. These criteria and the admission process are described below. Admission as an undergraduate student to CCSU does not automatically guarantee admission to a Professional Program. The selective admission process *requires considerable advanced planning.*

Restricted Professional Course Work.

Most courses offered in particular teacher preparation programs are open only to students who have been *formally admitted* to a Professional Program. Students who have not been admitted to a Professional Program may not enroll in restricted courses.

Retention Criteria. Once admitted to a teacher education Professional Program, a teacher candidate is expected to maintain a cumulative 2.70 grade-point average for all coursework completed at CCSU and elsewhere. If a candidate's GPA drops below this level, he or she may be denied enrollment to restricted courses and student teaching until the GPA reaches the approved level. Students must receive grades of C or better in all professional education courses required by the School of Education and Professional Studies. Students may not proceed to the next sequence of courses unless courses are repeated and Professional Program courses may not be repeated without the consent of the chair of the Teacher Education Department.

Performance Assessment

The School of Education and Professional Studies may require students to complete a departmental performance assessment in order to qualify for student teaching and to complete the Professional Program.

Students must maintain good standing in the program in order to qualify for student teaching and a recommendation from CCSU for State of Connecticut certification. In addition to academic good standing, students must demonstrate the following:

- Personal attitudes and attributes that affect her or his performance as a teacher;
- Conduct that demonstrates professional behavior appropriate to the context and shows realization that actions reflect directly upon the status and substance of the profession;
- Confidentiality of all information concerning colleagues and students obtained in the educational process;
- Integrity and honesty in written and verbal communication, documentation

and coursework related to the Professional Program for teacher certification.

Admission to a Teacher Preparation Professional Program

Many of the criteria and procedures for admitting students to a Professional Program leading to teacher certification are governed by State of Connecticut regulations. Admission in a timely fashion requires a degree of advanced planning on the part of teacher candidates. The procedures described below do not apply to programs in athletic training, health fitness or nursing. These programs have their own admission procedures which are described elsewhere in this catalog. For any aspect of the admission process that requires clarification, please contact the Office of the Dean of Education.

The Admission Process

Phase I: Pre-application. When students first enter the University, they select a program and subject matter major and pursue (under the guidance of an advisor in the department where the major is housed) course work 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 apply for admission to a Professional Program. Prior to this application, students are required to:

- Complete *45 credits*, of which 15 have been earned at Central Connecticut State University (with the exception of Elementary Education and Early Childhood Education). Graduates of Connecticut community colleges may have this requirement waived; contact the Office of the Dean of Education and Professional Studies for details.
- Pass the Praxis I Pre-professional Skills Test (PPST) (basic skills tests 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 (PPST) may be waived if:
 - (1) SAT Waiver: A total score of 1,000 on the SAT, with neither the mathematics nor the verbal subtest scores below 400 points *from any test administration on or prior to March 31, 1995*, or a combined score of 1,100 or

more with no less than 450 on either the verbal or the mathematics subtests *from test administrations on or after April 1, 1995.*

(2) ACT Waiver: No less than 22 on the English subtest and no less than 19 on the mathematics subtest on the American College Testing (ACT) program assessment *from test administrations on or after October 1989, or the equivalent ACT scores of no less than 20 on the English and 17 on the mathematics, from test administrations prior to October 1989.*

(3) a student has a Prueba de Aptitud Academica (PAA) score equivalent to a SAT score of 1,000, with neither the math nor verbal subtest scores below the equivalent of 400.

Praxis I (PPST) waiver applications are also available.

- Have a minimum of a cumulative 2.70 grade point average at Central Connecticut State University and elsewhere. Student's may appeal for a waiver of the GPA requirement based on demonstrated academic ability and intervening life experience.
- Complete courses and additional requirements for specific departmental programs as prerequisites for application to a teacher education program. Consult with the chair of the department or your advisor for specifics.
- Fulfill certain fieldwork requirements involving working with children for Elementary and Early Childhood programs in the Department of Teacher Education. Details are available from the Department of Teacher Education and are listed on the Professional Program application packet as well.

Phase II: Application. Students should note the following information regarding application to a teacher preparation Professional Program, which is conducted twice a year.

- Applications are due September 10 or February 10 (or the next regular day of classes if the date falls on a weekend or holiday) and are submitted to the Office of the Dean (HB 248).
- Application packets are available in the information racks outside the Dean's Office (HB 248) and on the CCSU School of Education and

Professional Studies Web site at www.education.ccsu.edu.

- Once the application packet is submitted, it will be reviewed by the Office of the Dean. Fulfillment of Praxis I and a cumulative grade point average of 2.70 or better for all attempted college work will be verified. Students who fulfill these admission requirements will have their applications forwarded to the respective department.
- The Office of the Dean forwards the application to the appropriate department for evaluation and scheduling of an interview. Once the department completes their review, it then recommends, to the Office of the Dean, the admission status for each applicant.

Phase III: Admittance. Students will receive a letter from the Office of the Dean sometime before the end of the semester they apply indicating whether the student has been admitted, deferred until certain requirements have been fulfilled, or rejected. *Only officially admitted students may register for professional courses in education.*

Revocation of Admission to the Professional Program

The Dean of the School of Education and Professional Studies may revoke admission to the professional if the student has:

- A cumulative grade-point average below 2.7;
- Demonstrated unprofessional behavior or an inability to respond appropriately in various contexts which affects her or his performance as a teacher;
- Falsified or misrepresented any documentation or information provided for programmatic, academic or professional qualification/competency purposes;
- Unacceptable performance in student teaching;
- Achieves an unacceptable standard on the performance assessments required by the School of Education and Professional Studies
- Been convicted in a court of law of a crime involving moral turpitude or of any crime of such nature that in the opinion of the university would impair the standing of the School of Education

and Professional Studies professional program; or

- Other due and sufficient cause.

Post-Baccalaureate Programs Leading to Teacher Certification Only

Students who already hold a bachelor's degree may pursue teacher certification through our post-baccalaureate programs. These programs prepare students for teacher certification and do not result in a master's degree. Students may seek certification in the following fields:

- Elementary Education
- Secondary Education in the following subjects: Biology, Business, Chemistry, Earth Sciences, English, French, Integrated Science, German, History, Italian, Mathematics, Physics, Social Science, and Spanish
- All level subjects: Art, Music, Physical Education, TESOL, Technology Education
- Special Education

Admission to a *post-baccalaureate teacher certification Professional Program depends upon and follows admission to the Graduate School.* Post-baccalaureate students must meet all course and fieldwork requirements specified in particular teacher preparation programs and governed by State of Connecticut regulations. This includes satisfying certain general education and subject matter major requirements.

Post-Baccalaureate "Program of Study"

For students seeking certification in elementary and secondary education, a "Program of Study" is determined and filed with the School of Education post-baccalaureate *advisor.*

For students seeking certification in Art, Music, Physical Education and Technology Education, a "Program of Study" is determined and filed with the *chair of the department that offers their program.* The "Program of Study" (that must be approved by the Graduate Office) ensures that all certification requirements are satisfied and becomes a contract between the student and his or her advisor.

Post-baccalaureate students must meet the following general education requirements: at least 39 credits of liberal arts course work including a U.S. history survey course, and courses in each of the following

areas: English, mathematics, natural sciences and social sciences, and one course in foreign language or fine arts. Coursework in developmental or life span psychology is a prerequisite for the Professional Program.

For information regarding requirements and admission to the Professional Program, refer to page 68 of this catalog, under the section titled Admission to a Teacher Preparation Professional Program.

Undergraduate Degree Programs Without Teacher Certification

Three programs are offered which lead to a Bachelor of Science degree, but do not include any type of teacher certification.

The Department of Physical Education and Health Fitness Studies offers a major in Athletic Training and an option in Exercise Science and Health Promotion. The Department of Health and Human Services Professions offers a major in Nursing.

Repeat Policy

An exception to the course repeat policy (see page 32) exists in the Department of Teacher Education which requires that departmental permission be granted to repeat any Professional Program course. Students must submit the request for permission to repeat any of these courses to the chair of Teacher Education before adding the course to their schedule for a second time. Once students have the chair'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 have been denied admission because of the GPA requirement may write a letter of appeal to the Dean of Education for a waiver of the GPA requirement presenting compelling evidence of both of the following:

- 1) Demonstrated academic ability in recent coursework with an exemplary GPA showing a different pattern of performance from prior undergraduate course work; and
- 2) Intervening life experience, e.g., working with children or in a profession/vocation that has contributed to their growth and maturity as a prospective teacher.

The appeal will be reviewed and approved by the Assistant Dean,

Coordinator of Teacher Education, Dean of Education and Professional Studies, an academic department chair/faculty and representatives of the SEPS Governance Council. The dean or designee may call a meeting with the applicant to discuss the appeal in person. The decision regarding the appeal of the GPA requirement will be communicated in writing to the student by the Dean of Education and Professional Studies or designee and the department.

Students who are denied admission to the Professional Program for reasons other than GPA may meet with the Assistant Dean. Issues concerning the application or admission *process* may be referred to the SEPS Governance Council Appeals Committee.

Connecticut Certification Procedures

To be eligible for Connecticut certification, a teacher candidate must be recommended by the Office of the Dean of the School of Education and Professional Studies.

Although teacher candidates must complete a Bachelor of Science (B.S.) degree in an approved program and pass the Praxis II test applicable to the certification endorsement area they are seeking*, teacher candidates must apply for certification at the beginning of the last semester of enrollment.

To apply for certification, undergraduate teacher candidates must:

1. Obtain, complete and submit the following two forms at the Office of the Registrar:
 - A. a certification application form *and*
 - B. application for graduation
2. Submit a copy of the Praxis II score report to the Office of the Dean (HB 248) after successfully completing the appropriate exam.
3. Mail the application and a certified bank check or money order in the appropriate amount to the Bureau of Teacher Certification and Professional Development after receiving the approved certification application and the CCSU transcript from the Office of the Dean.
4. Receive the Initial Educator Certificate in the mail from the Connecticut State Department of Education Bureau of Certification.

When registering for the Praxis II test, candidates must request their report be sent to:

1. Central Connecticut State University (Score Recipient Code Number R3898).

2. Connecticut State Department of Education (Score Recipient Code Number R7050).

*Information concerning Praxis II is available at the Office of the Dean or via the Educational Testing Services (ETS), Praxis Series Web site:

<http://www.teachingandlearning.org>.

Out-of-State Certification Procedures for CCSU Graduates

Information about out-of-state certification is available in the Office of Career Services. Any application or portion of an application that requires an institution recommendation or attestation concerning the completion of an "approved program" should be referred to the Office of the Dean. Students must provide full information about the graduate's name at the time of completion of CCSU's program, date of program completion, social security number, current name and address and any particulars concerning the other state's information requirements.

Counseling and Family Therapy

J. Malley, *Chair*; R. Cohen, H. J. Fried, J. Rosenberg, C. Tait, D. Wiener (*Dept. phone 832-2154*)

The department offers a Master of Science degree in Counselor Education and in Marriage and Family Therapy, preparing students for careers in School Counseling, Student Development in Higher Education, Rehabilitation Counseling, Mental Health Counseling, Drug and Alcohol Recovery Counseling, and Marriage and Family Therapy. See the Graduate Catalog for more information.

Educational Leadership

A. Rigazio-Digilio, *Chair*; F. Abed, *Program Coordinator*; D. Arends, K. Beyard, C. Carter-Lowery, P. Lisi, O. Sogunro, B. Sponder, 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, a Sixth-Year Certificate leading to certification as an intermediate administrator or supervisor, and a doctoral program in Educational Leadership.

The department also offers graduate courses in curriculum development, research in education and undergraduate/graduate courses in Educational Technology.

Nursing

C.G. Williams, *Chair*; L. Barile, M. Levvis
(Dept. phone 832-2154)

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 125 credits.

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

In addition to meeting all requirements established for admission to Central Connecticut State University,* the applicant must:

- be licensed currently as a registered nurse in Connecticut**
- carry and provide documentation of adequate malpractice and health insurance
- have completed a minimum of 45 undergraduate credits from an accredited college or university
- have advisement by nursing faculty
- be CPR certified
- meet specific immunization and OSHA requirements
- successfully complete the state articulation agreement (30 credits of nursing transferred from associate degree or diploma school program if the examination is passed) prior to enrolling in NRSE 303
- complete the B.S.N. program within five years of taking NRSE 303

*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.

Requirements

125 credits including validation examination (lower division nursing credits) of 33 credits and NRSE 300, 301, 303, 410, 412, 414. In addition, BIO 412, 413; PS 448; PSY 364; and MGT 295 are required. Degree program totals 125 credits.

Physical Education and Health Fitness Studies

D. V. Harackiewicz, *Chair*; J. Bourell Miller, A. B. Capitaio, C. J. Fellows, F. J. Frangione, T. J. McCarthy, P. Morano, V. S. Morley, K. B. Pirog, S. H. Smith (Dept. phone 832-2155)

The Department of Physical Education and Health Fitness Studies offers an undergraduate major in Physical Education for teacher certification, a non-teacher certifiable option in Exercise Science and Health Promotion and a non-teacher certifiable major in Athletic Training.

Physical Education: The Physical Education teacher preparation program prepares future teachers for public and private schools in the State of Connecticut. Those students who successfully complete the program are eligible for certification in pre-kindergarten through grade 12 physical education.

Exercise Science and Health Promotion: A non-teacher certifiable program which prepares students for employment at fitness/wellness centers in corporate, non-profit, clinical and sport settings. Students are given the necessary cognitive and practical experiences for pursuing certification by the American College of Sports Medicine (ACSM) and the National Strength and Conditioning Association (NSCA). Exercise prescription and implementing individualized fitness programs are emphasized.

Athletic Training: A non-teacher certifiable program that prepares students for employment as certified athletic trainers in schools, colleges/universities, professional sports and sports medicine settings. Students in this program are given the necessary cognitive and psychomotor skills required for certification by the National Athletic Trainers Association Board of Certification (NATABOC). The

program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Students who complete this program meet the requirements for eligibility to take the written, practical and written simulation examinations administered by the NATABOC for certification as an athletic trainer.

Major in Physical Education, B.S. Ed. 57–58 credits in Physical Education skill and lecture courses as follows.

Skill Courses (12–13 credits)

PE 272 Movement Fundamentals
PE 273 Tumbling and Gymnastics
PE 277 Outdoor Adventure Activities
PE 350 Racquet Sports
PE 375 Training for Fitness
DAN 377 Modern Dance and Theory
Choose *one* from the following, selected in consultation with advisor: REC 232, REC 233, PE 271.

Lecture Courses (45 credits)

PE 111 Orientation to Physical Education
PE 210 Personal and Community Health
PE 213 Anatomy in Physical Education
PE 214 Physiology in Physical Education
PE 216 Kinesiology
PE 300 Developmental Movement
PE 304* Secondary Methods in Physical Education
PE 305 Evaluation in Physical Education
PE 402* Organization and Administration of Physical Education
PE 405* Elementary Methods in Physical Education
PE 406* Adapted Physical Education
PE 408* The Curriculum Process in K–12 Physical Education
PE 409* Psycho-Social Aspects of Physical Education
PE 410* Exercise Physiology
PE 420* Perceptual and Motor Development
PE 422* Motor Learning

The following additional courses are also required.

Professional Education Courses (23 credits)

EDT 315* Educational Technology in the Secondary School Classroom

EDTE 316* Principles of Learning
 EDSC 375* Principles and Evaluation in Education (All Levels)
 EDF 400* Philosophy of Education
 or
 EDF 415* Educational Foundations
 EDSC 417* Student Teaching (Elementary P. E.)
 EDSC 419* Student Teaching (Secondary School P. E.)

*Require admission to the Professional Program prior to enrollment

Required General Education courses:
 BIO 111, CHEM 111, ENG 110, HIST 261, HIST 262, STAT 104, PHYS 111, PSY 236 and COMM 115

Note: No minor is required with this major.

Note: For information on admission to the Professional Program, see page 68.

PROGRAMS NOT CERTIFIABLE FOR TEACHING

Major in Physical Education: Exercise Science and Health Promotion, B.S.
 62 credits in Physical Education as follows.

Lecture Courses (56 credits)

PE 110 Concepts in Physical Fitness
 PE 113 Introduction to Exercise Science
 PE 210 Personal and Community Health
 PE 213 Anatomy in Physical Education
 PE 214 Physiology in Physical Education
 PE 215 Physiological Aspects of the Human Performance of the Aging
 or
 PE 403 Methods in Physical Activity for the Aging
 PE 216 Kinesiology
 PE 217 Care and Treatment of Athletic Injuries
 PE 307 Human Nutrition
 PE 311 Stress Management
 PE 380 Leadership in Exercise and Wellness
 PE 410* Exercise Physiology
 PE 411* Organization and Management of Health Promotion Programs
 PE 412 The Application of Tort Law to Physical Activity

PE 415* Fitness Assessment and Exercise Prescription
 PE 421* Pharmacology in Sports Medicine and Special Populations
 PE 425* Implementation and Evaluation of Health Promotion Programs
 PE 450* Practicum in Exercise Science
 PE 470* Internship in Exercise and Health Promotion

Skill Courses (6 credits)

PE 201 Teaching Aerobics: Dance, Step and Aqua
 PE 375 Training for Fitness
 REC 232 Lifeguard Training
 or
 REC 233 Water Safety Instructor's Course

* Require admission to the Professional Program prior to enrollment.

Required General Education Courses:
 BIO 111, CHEM 111, ENG 110, HIST 261, HIST 262, STAT 104, CS 115, PHYS 111, PSY 112, 236, COMM 140.

Note: No minor is required with this major.

Applying for Admission into the Exercise Science and Health Promotion Program
 Undergraduate applicants seeking admission to the Exercise Science and Health Promotion Program are required to submit a file of materials for review by the Department of Physical Education and Health Fitness Studies. The applicant's completed file should be submitted prior to September 21 for fall candidates and February 21 for spring candidates of the second semester sophomore year. Applications for admission may be obtained in the Department of Physical Education and Health Fitness Studies, Kaiser Hall, Room 0180.

Requirements for Admission

The following are departmental requirements for admission to the Exercise Science and Health Promotion Program.

1. Completion of application to the Professional Program for Exercise Science and Health Promotion
2. Completion of 45 credits of academic work
3. Successful completion of 5 credits of required physical education lecture courses including PE 213 and 2 credits of required skill courses

4. University Grade-Point Average of 2.50
5. Departmental Grade-Point Average of 2.50
6. Two letters of recommendation (from persons who can best assess the candidates potential)
7. The presentation of an essay demonstrating command of the English language, setting out the reasons for wanting to enroll in the program
8. An interview with the Personnel Committee of the Department of Physical Education and Health Fitness Studies

Retention Policy

The following requirements must be maintained in order to remain in good standing within the Exercise Science and Health Promotion Program.

1. Students must maintain a University Grade-Point Average of 2.50.
2. Students must maintain a Departmental Grade-Point Average of 2.50.

Note: Internship assignments require the student to be in good standing by having both a University and a major GPA of 2.50.

Major in Athletic Training, B.S.

62 credits as follows.

Lecture Courses (48 credits)

PE 110 Concepts in Fitness
 PE 112 Introduction to Athletic Training
 PE 210 Personal and Community Health
 PE 213 Anatomy in Physical Education
 PE 214 Physiology in Physical Education
 PE 216 Kinesiology
 PE 217 Care and Treatment of Athletic Injuries
 PE 218 Scientific Basis for Athletic Training
 PE 307 Human Nutrition
 PE 317 Therapeutics in Athletic Training
 PE 332 Psychological Aspects of Sport
 PE 410* Exercise Physiology
 PE 413* Organization and Administration of Athletic Training
 PE 415* Fitness Assessment and Exercise Prescription
 PE 421* Pharmacology in Sports Medicine and Special Populations

PE 440	Therapeutic Modalities in Athletic Training
IT 380	Emergency Medical Technician
Skill and Practicum Courses (14 credits)	
PE 315*	Practicum in Athletic Training I
PE 316*	Practicum in Athletic Training II
PE 319*	Practicum in Athletic Training III
PE 375	Training for Fitness
PE 445*	Internship in Athletic Training

* Require admission to the Professional Program prior to enrollment.

Clinical Experience

All students in the Athletic Training Education Program are required to complete four semesters of clinical experience in Central's Athletic Training facility, one pre-season experience at CCSU that typically runs from mid-August to the first day of classes, and a fifth semester in an off-campus affiliation. The student will be under the direct supervision of a certified athletic trainer while obtaining the minimum of 800-clock hours required by the NATABOC to become eligible to sit for the certification exam. While the program maintains the minimum standard of 800-clock hours of clinical experience under the direct supervision of a NATABOC certified athletic trainer, emphasis is placed on mastery of the educational competencies over the five semesters of clinical experience.

Note: NATABOC approved clinical hours will begin upon acceptance in the Athletic Training Education Program.

Applying for Admission into the Athletic Training Education Program

Undergraduate applicants seeking admission to the Athletic Training Education Program are required to submit a file of materials for review by the Department of Physical Education and Health Fitness Studies. The applicant's completed file should be submitted prior to September 21 for fall candidates and February 21 for spring candidates of the second semester sophomore year. Applications for admission may be obtained in the Department of Physical Education and Health Fitness Studies, Kaiser Hall, Room 114.

Requirements for Admission

The following are departmental requirements for admission to the Athletic Training

Education Program. Acceptance into the Professional Program should be completed by the second semester sophomore year. Students not meeting this deadline must meet with the program director to continue in the Professional Program.

1. Completion of application to the Professional Program for athletic training
2. Successful completion of 200 observation hours in the clinical aspect of athletic training at CCSU
3. Completion of 45 credits of academic work at CCSU as an athletic training major
4. Successful completion of PE 112, PE 213 (at CCSU) and PE 217 (at CCSU), with a grade of C- or better in all courses
5. Successful completion of IT 380
6. University Grade Point Average of 2.50
7. Departmental Grade Point Average of 2.50
8. Two letters of recommendation (from persons who can best assess the candidates potential)
9. The presentation of an essay demonstrating command of the English language, setting out the reasons for wanting to enroll in the program, and emphasizing experiences related to Athletic Training (500–750 words)
10. An interview with the Personnel Committee of the Department of Physical Education and Health Fitness Studies, including at least one clinical supervisor

Technical Standards for Admission

The technical standards set forth by the Athletic Training Educational Program establish the essential qualities considered necessary for students admitted to this program to achieve the knowledge, skills, and competencies of an entry-level athletic trainer, as well as meet the expectations of the program's accrediting agency (Commission on Accreditation of Allied Health Education Programs [CAAHEP]). All students admitted to the Professional Program in the Athletic Training must meet the following abilities and expectations. In the event a student is unable to fulfill these technical standards, the student will not be admitted into the program.

Compliance with the program's technical standards does not guarantee a student's eligibility for the NATABOC certification exam.

Candidates for admission to the Professional Program in Athletic Training at CCSU must demonstrate:

1. The demonstrated ability to assimilate, analyze, synthesize, integrate concepts and problem solve to formulate assessment and therapeutic judgments and to be able to distinguish deviations from the norm.
2. Evidence of sufficient postural and neuromuscular control, sensory function, and coordination to perform appropriate physical examinations using accepted techniques; and the demonstrated ability to accurately, safely and efficiently use equipment and materials during the assessment and treatment of patients.
3. The demonstrated ability to communicate effectively and sensitively with patients and colleagues, including individuals from different cultural and social backgrounds; this includes, but is not limited to, ability to maintain a professional demeanor, establish rapport with patients, and communicate judgments and treatment information effectively. Students must be able to understand and speak the English language at a level consistent with competent professional practice.
4. The demonstrated ability to record the physical examination results and a treatment plan clearly and accurately.
5. The demonstrated ability to maintain composure and continue to function effectively during periods of high stress.
6. The perseverance, diligence and commitment to complete the athletic training education program as outlined and sequenced.
7. Demonstration of flexibility and ability to adjust to changing situations and uncertainty in clinical situations.
8. The demonstrated ability to perform the affective skills that relate to professional education and quality patient care.

Candidates for admission to the Professional Program in athletic training will be required to verify they understand and meet these technical standards or that they believe that, with certain accommodations, they can meet the standards.

A student who believes that they have a disability that may impact admission to or successful completion of this program should contact the *CCSU Office of Special Student Services in Willard Hall, Room 100, 832-1955, TDD 832-1958*. The Office of Special Student Services will evaluate the student's documentation to determine if the stated condition qualifies as a disability

under applicable laws and so notify the Program Director of Athletic Training Education Program and the Chair of the Department of Physical Education & Health Fitness Studies.

If a student with a qualified disability states he/she can meet the technical standards with accommodation, then the student and appropriate University personnel will discuss what accommodation(s) may be effective and whether the accommodations requested are reasonable, taking into account clinician/patient safety, and whether the requested accommodations would fundamentally alter the nature of the program, including academic standards.

Retention Policy

The following requirements must be maintained in order to remain in good standing within the Athletic Training Education Program.

1. Students must maintain a University Grade-Point Average of 2.50.
2. Students must maintain a Departmental Grade-Point Average of 2.50.
3. Students must successfully progress in completing the skills competency checklists.

Note: NATABOC-approved clinical hours will begin upon acceptance into the Athletic Training Education Program. Internship assignments require the student to be in good standing by having both a university and a major GPA of 2.50 in addition to successful completion of all practicum courses and EMT Certification.

Transfer Students Policy

Transfer students must meet the same course requirements and application process as CCSU students. Transfer students are required to complete a minimum of 45 total credits "in residence" at CCSU. The 45 credits for transfer students may be in General Education and/or within the Athletic Training Education Program and must include PE 112, PE 213 and PE 217. Currently, all requests for transfer into the Athletic Training Education Program, either by students from other universities or by CCSU students looking to change majors, are handled on a case-by-case basis. The number of students accepted in this manner depends on the number of openings available in that year.

Reading and Language Arts

H. Abadiano, *Chair*; B. Davies, C. Kurkjian, P. L. O'Brien, R. Rush, B. Steele, J. Turner (*Dept. phone 832-2175*)

The Department of Reading and Language Arts offers both undergraduate and graduate 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 master's degree, sixth-year degree, and advanced official certificate programs that can lead toward certification as a remedial reading and language arts teacher or reading and language arts consultant.

Special Education

E. Pancsofar, *Chair*; M. Beck, J. Foshay, J. Nicoll-Senft, J. Walker, M. Williams (*Dept. phone 832-2400*)

The Department of Special Education prepares teachers to work with learners who have special needs. At the undergraduate level, the Department offers courses about exceptionalities that are required for certification of regular education teachers. Students who are interested in becoming special education teachers are encouraged to pursue teacher certification at the undergraduate level in elementary or secondary education, and then seek cross endorsement in special education at the graduate level. Contact the Special Education Department, or refer to the CCSU Graduate Catalog for further information.

Teacher Education

N. Hoffman, *Chair*; E. Aaronsohn, A. Ayalon, R. Casella, G. Cueto, M. Howell, L. Klein, D. Lawrence, D. Mulcahy, K. Riem, S. Seider (*Dept. phone 832-2415*)

The Department of Teacher Education is committed to the preparation and continuing professional education of students involved in early childhood, elementary, all-level and secondary education teaching programs.

The Department offers certification programs at the following levels.

Early Childhood Education
Elementary Education
Secondary Education
All-Level

Note: For information on admission to the Professional Program, see page 68.

EARLY CHILDHOOD EDUCATION

Coordinator: M. Howell (832-2422)

Program Requirements (130 credits)

General Education.

Requirements as follows: ENG 110, MATH 113, MATH 213 and BIO 211 or other biology course with a laboratory (or ISM 211 and 213), HIST 261 or 262, and PSY 236 and 462.

Subject Matter Major. (42-43 credits)

Students must complete a dual subject matter major including a 24-25 credit primary subject area and an 18 credit complementary subject area of Human Growth and Development. Students may choose a primary subject area in either English, Mathematics, or General Science. (See Arts and Science sections for specific course requirements.) The required Human Growth and Development courses are: PSY 112, PSY 200, PSY 239, PSY 365, PSY 462 and SOC 233.

Professional Education. (42 credits)

Courses are taken in clusters as follows:

EDTE 210 Education and Teacher Leadership in Diverse Learning Communities
EDT 210 Introduction to Educational Technology

Enrollment in the following courses requires acceptance to the Professional Program in the School of Education and Professional Studies. Applications are accepted in the second week of the fall and spring semesters. Courses are offered on an annual cycle.

EDEC 413 Principles of Early Childhood Education
RDG 315 Comprehensive Reading Instruction I

EDEC 423 Methods and Curriculum for Early Childhood
 RDG 423 Literacy for Early Childhood
 SPED 423 Assessment, Instruction and Curricular Adaptations for Preschoolers
 EDTE 310 Early Childhood Field Experience Practicum

SCI 456 Teaching Science to Young Children

EDT 415 Developing Instructional Materials
 EDF 415 Educational Foundations

EDTE 420 Practicum in Elementary Education II
 MATH 410 Early Childhood Mathematical Methods
 RDG 316 Comprehensive Reading Instruction II
 EDEC 426 Integrated Curriculum for Early Childhood

EDEC 430 Early Childhood Student Teaching
 EDTE 430 Topic Seminar in Leadership and Learning Communities

The completion of a minor is not required.

ELEMENTARY EDUCATION

Coordinator: S. Seider (832-2429)

Program Requirements (130 credits)

General Education requirements as follows: ENG 110, MATH 113, MATH 213 and BIO 211 (or ISM 211 and 213), HIST 261 or 262, PSY 236, ESCI 111 or any other ESCI course, and choice of one of the following: PSY 362, 363, 365, 462 (preferably PSY 362).

Subject Matter Major. (33–43 credits)
 Students must choose either a single subject matter major (33–39 credits) or a dual subject matter major (42–43 credits). Single subject matter majors include English, Geography, History, Mathematics, Interdisciplinary Science with a specialization in Biology, or Interdisciplinary Science

with a specialization in Earth Science. Dual Subject Matter Majors require completion of a 24–25 credit primary area and a 18 credit complementary area. Dual Subject Matter Majors include:

- English with a complementary area of Geography
- History with a complementary area of English/Linguistics or English/Writing
- Mathematics with a complementary area of Biology or Earth Science

See Arts and Science sections for specific course requirements.

Professional Education. (49 credits)
 Courses are taken in clusters as follows:

EDTE 210 Education and Teacher Leadership in Diverse Learning Communities
 EDT 210 Introduction to Educational Technology

Enrollment in the following courses requires acceptance to the Professional Program in the School of Education and Professional Studies. Applications are accepted in the second week of the fall and spring semesters.

RDG 315 Comprehensive Reading Instruction I
 EDTE 315 Principles of Learning
 SPED 315 Introduction to Educating Learners with Exceptionalities

RDG 316 Comprehensive Reading Instruction II
 EDEL 322 Effective Elementary Teaching
 EDTE 320 Practicum in Elementary Education I

EDF 415 Educational Foundations
 EDT 415 Developing Instructional Materials
 EDTE 420 Practicum in Elementary Education II
 FA 412 Fine Arts Across the Curriculum

MATH 412 Elementary Mathematical Methods
 RDG 412 Literacy in the Elementary School
 SCI 412 Elementary Science Methods

EDEL 415 Elementary Social Studies Methods

EDEL 430 Elementary Education Student Teaching

EDTE 430 Topic Seminar in Leadership and Learning Communities

The completion of a minor is not required.

SECONDARY EDUCATION and ALL-LEVEL SUBJECTS

Coordinator: A. Ayalon (832-2135)

Program Requirements (130 credits)

General Education.

Requirements for secondary programs are as follows: 6 credits in English (ENG 110 is required), HIST 261 or 262, PSY 236, 6 credits of Science, and 6 credits in Mathematics. For all-level program requirements, students should consult the chair of their department to determine the recommended General Education courses.

Major. (36–57 credits)

Students in Secondary Education programs can be certified to teach in specific areas of specialization as follows:

Secondary: Biology, Chemistry, Earth Science, English, French, German, Integrated Science, Italian, Mathematics, Physics, Social Studies, Spanish
 All levels: Art, Music, Physical Education, Technology Education

See Arts and Science or Technology sections for specific course requirements.

Minor. (18–24 credits)

The completion of a minor or a certifiable minor is required unless specifically noted in the individual major. Options for certifiable minors for science majors include Biology, Chemistry, Earth Science, and General Science. Specific course requirements for minors can be found in the Arts and Science sections.

Professional Education. (24–34 credits)

Enrollment in the following courses requires acceptance to the Professional Program in the School of Education and Professional Studies.

RDG 440 Literacy in the Secondary School

EDTE 316 Principles of Learning

SPED 315 Introduction to Educating Learners with Exceptionalities
EDSC 375 Principles and Evaluation in Education (All levels)

or

EDSC 425 Principles of Secondary Education

EDF 400 Philosophy of Education

or

EDF 415 Educational Foundations
EDSC* Student Teaching

Major Methods Course in conjunction with the major academic department

*Course numbers and availability of student teaching vary based on certification field.

Additional professional education course work is required in the academic discipline to be taught.

FIELD EXPERIENCES AND STUDENT TEACHING

Director: Holly Hollander (832-2420)

All students in Early Childhood, Elementary, Secondary Education and All Level programs are required to complete student teaching. Prospective student teachers must complete a student teaching application form which is available in the Office of Field Experiences. To student teach in the fall semester, applications must be submitted by March 1. Applications to student teach in the spring semester must be submitted by October 1.

Students should have received a passing grade on the PRAXIS 1 (PPST) 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. Additional student teaching prerequisites are outlined in the student teaching application.

Withdrawal from Student Teaching:

Students may withdraw from student teaching (EDEC 430, EDEL 430, EDSC 412, 414, 415, 417, 419, 420, 421, 428, 429, 435) with the consent of the university supervisor and the Director of Field Experiences by filing a "Request to Withdraw from Courses" form with requisite signatures. Students who withdraw from student teaching after the placement has commenced may not be eligible for a second student teaching placement. Furthermore, a request to repeat student teaching in another school setting may be

granted at the discretion and consent of the chair of the Department of Teacher Education, the Director of Field Experiences and the academic department related to the certification area sought. Such consent will be based on the reasons for the withdrawal from the original student teaching placement, the timing and availability of alternative student teaching placements, and evidence of improvement of relevant knowledge, skills, and/or dispositions.

School of Education and Professional Studies Centers

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

The **Center for Multicultural Research and Education** (Barnard Hall 260) provides a variety of professional development programs and opportunities for K-12 and university faculty that support development of education that is multicultural. Additional goals of the Center include serving as a resource center in the dissemination of research information, articles and curriculum materials, and supporting efforts to recruit students representing diverse cultural backgrounds to the teacher preparation and Professional Programs.

The **Center for Innovation in Teaching and Technology** (CITT), located in Barnard Hall 333, provides faculty and students with opportunities to create learning outcomes through using state-of-the-art technology in multi-media, computer-based instruction and other technological delivery systems.

Zdzislaw Kremens, *Dean*
 Olusegun Odesina, *Associate to the Dean*
Phone: (860) 832-1800; Fax: 832-1804

The School of Technology prepares graduates in professional technological fields. The only public school of technology in the state of Connecticut, it consists of four departments: Computer Electronics and Graphics Technology, Engineering Technology, Manufacturing and Construction Management, and Technology Education. The School offers degrees in construction management, electronics technology, engineering technology, and industrial technology, leading to a wide variety of careers. 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 be educated in the dynamic fields of technology. They will develop an understanding of computers, tools, materials and instrumentation; how industry changes the forms of materials, energy and information to increase their value in society; how industry develops products and distributes and services products; and industrial organization and management.

Designated as a "Center of Excellence" by the State of Connecticut, CCSU's School of Technology has taken great pride in its ability to offer a broad range of curriculum options that provide students with a careful balance of classroom theory and practical application.

Computer Electronics and Graphics Technology

K.C. Tracey, *Chair*; M.C. Haase, O. Odesina, V. Rajaravivarma, S.E. Rich, D. Zanella (*Dept. phone 832-1830; Fax 832-1806; Web site:www.technology.ccsu.edu*)

The Computer Electronics and Graphics Technology Department offers the following undergraduate (Bachelor of Science degree) and graduate (Master of Science degree) programs:

- BS Electronics Technology
- BS Industrial Technology with specializations in
 - Networking Technology
 - Graphics Technology
- MS Computer Information Technology

The Computer Electronics and Graphics Technology Department offers programs designed to prepare students for technology-oriented supervisory, middle management and leadership positions. The programs respond to an increasing industry demand for highly qualified personnel who have a combination of technical and managerial skills. Therefore, this study includes a comprehensive knowledge of industrial processes and applied technologies, in addition to a background in general education. Providing a broad range of educational and career enhancement opportunities, the Department prepares graduates for careers in rapidly changing technical fields.

PLANS OF STUDY

Students interested in 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.

ELECTRONICS TECHNOLOGY

MAJOR, B.S. (63 credits)

Advisor: D. Zanella (832-1841)

Accredited by NAIT

This degree prepares students to work as a member of an engineering team in applied design, product development, manufacturing, maintenance or technical support/sales services in the electrical and electronic industries which include telecommunications, control systems, manufacturing of electromechanical devices and computer services.

Technology Requirements	Credits
CET 223 Basic Electrical Circuits	3
CET 233 Advanced Electrical Circuits	3
CET 243 Electronic Devices	3
CET 323 Analog Circuits	3
CET 363 Digital Circuits	3
CET 443 Electronic Communication	3

CET 453	Microcomputers	3
EMEC 114	Intro. to Energy Processing	3
EMEC 303	Electro-Mechanical Converters	3
MFG 121	Technical Drafting and CAD	3
CET 113	Intro. to Information Processing	3
Electives—Technical and Management	Choose from the following: EMEC 313, 333, 463; IT 480; CS 151 or 213	6

Core Courses	Credits	
IT 190	Introduction to Quality Assurance	3
IT 362	Leadership Skills for Supervisors	3
IT 401	Industrial Internship	3
IT 410	Industrial Safety	3
MGT 295	Fundamentals of Management and Organizational Behavior	3
ENG 403	Technical Writing	3
AC 210	Principles of Industrial Accounting	3
MKT 295	Fundamentals of Marketing	3

TC — Technical Courses — designed to develop technical competencies for Computer Electronics and Graphics Technology, Manufacturing and Construction Management, Engineering Technology and Technology Education.

General Education Requirements

A total of 44–46 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: Skill Area I — ENG 110, COMM 140; Skill Area II — STAT 104, MATH 115; Study Area II — ECON 201; Study Area IV — CHEM 111 with lab, PHYS 111 with lab.

Note: A minor is not required for this major.

INDUSTRIAL TECHNOLOGY MAJOR, B.S. (63 credits)
 Accredited by NAIT

Technology majors, regardless of the program selected, are required to complete a

common core of 24 credits in technical and management courses as part of their program. The core courses and general education requirements for this degree are the same as those listed in the Electronics Technology major on page 77.

Graphics Technology

Advisors: 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 on wide background rather than mechanical skills, and will equip students to work in management as supervisors, estimators, salespersons or production controllers.

Specialization Requirements	Credits
CS 110 Intro. to Internet Programming and Applications	3
DES 126 Introduction to Graphic/Information Design	3
CET 113 Intro. to Information Processing	3
GRT 112 Digital Imaging for Graphic Technology	3
GRT 212 Graphic Arts Processes	3
GRT 242 Intro. to Graphic Design and Color	3
GRT 342 Screen Printing and Post-Press Operation	3
GRT 362 Estimating and Scheduling for Printing	3
GRT 442 Print Production	3
GRT 462 Advanced Graphic Arts Techniques	3
Directed Electives	9

Networking Technology

Advisors: V. Rajaravivarma (832-0075), K. Tracey (832-1842)

The Networking Technology specialization prepares individuals to enter into the evolving world of Information Technology, dealing with computer hardware and software, as well as the peripheral devices closely associated with computer-based systems. The curriculum focuses on local and wide area network design, administration and internet technologies. Analytically based mathematics, computer science, electronics and business courses round out the program.

Specialization Requirements	Credits
CET 113 Intro. to Information Processing	3
CET 229 Computer Hardware Architecture	3
CET 339 Computer System Administration	3
CET 349 Fundamentals of Networking	3
CET 363 Digital Circuits	3
CET 449 Advanced Networking	3
CET 453 Microcomputers	3
CET 479 Internet Technologies	3
Electives	15
Selected in consultation with advisor	
	Credits 39

Note: A minor is not required for this major.

Minor in Networking Technology

18 credits as follows: CET 223, 229, 363, 349, 449, 453.

Engineering Technology

L. Lema, CMfgE, *Chair* (832-1825); G. D. Alungbe, P.E.; P. F. Baumann; A. Gates, P.E.; E.J. Maydock; O.A. Powell, P.E.; Z. Prusak; and E. Sarisley, P.E. (*Dept. phone 832-1815; Fax 832-1811; Web site: www.technology.ccsu.edu*)

The Department of Engineering Technology offers the Bachelor of Science (B.S.) with majors in engineering technology.

The Department offers three technical majors designed to prepare students to become active partners with engineers and to be team members of the total technological enterprise that extends from planning and production to construction and/or service.

Students who have chosen a specific major 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, mathematics, computer graphics, communications and mechanics, along with laboratory courses in the technical specialization.

The Civil, Manufacturing and Mechanical Engineering Technology programs are accredited by the Technology

Accreditation Commission of Accreditation Board for Engineering and Technology, Inc. (TAC of ABET), 111 Market Place, Suite 1050, Baltimore, Maryland 21202. Phone: (410) 347-7700.

Students of senior standing within an accredited program are eligible to take the Fundamentals of Engineering (FE) examination as the first step towards obtaining their Professional Engineer (PE) licensure. Application materials may be requested from the Department of Consumer Protection, 165 Capitol Avenue, Hartford, CT 06106-1630; phone: (860) 713-6145. Additional information about the examination may be obtained from the National Council of Examiners for Engineering and Surveying (NCEES) Web site at <http://www.ncees.org>.

PLANS OF STUDY

Those students enrolled in the Department of Engineering Technology may attend the University as full- or part-time students. Courses offered in the late afternoons or evenings allow part-time students to maintain full-time employment. Full-time students may complete their 130-credit program in four years. The engineering technology major does not require a minor. A Co-op experience is suggested for all students.

ENGINEERING TECHNOLOGY MAJOR, B.S.

General Education Requirements

Engineering Technology majors are required to complete 40 to 49 credits of the following courses as part of their General Education requirements.

	Credits
Study Area I—Arts & Humanities	9
3 credits of Literature and 6 credits of Literature, Philosophy or Fine Arts. No more than six credits from any one discipline.	
Study Area II—Social Sciences	6
3 credits of History and 3 credits of Economics, Geography, History or Political Science	
Study Area III—Behavioral Sciences	3
3 credits of Anthropology, Psychology or Sociology	
Study Area IV—Natural Sciences	8
PHYS 121 or 125**, and PHYS 122 or 126**	
Skill Area I—Communication Skills	6
ENG 110* and COMM 140	

Skill Area II—Mathematics 6 or 8
 MATH 135 or 152**; and MATH 136
 or 221**

Skill Area III—Foreign Language
 Proficiency 0–6

Skill Area IV—University Requirement 2–3
 PE 244

* Placement exam may be required before enrolling
 in English or Mathematics courses.
 ** Recommended

A minimum grade of C- is required in all
 courses in the major, all additional course
 requirements and courses in Study Area IV,
 Skill Area I and Skill Area II.

Students are required to obtain an account
 and computer certification from the campus
 Microcomputer Lab Office in their first
 semester of registration.

Engineering Technology Majors

The Department currently offers the follow-
 ing three majors: (i) civil, (ii) manufactur-
 ing, and (iii) mechanical. Each Engineering
 Technology student should choose one of
 the majors based on individual interests and
 goals. Course requirements for each major
 are presented below.

(i) Civil Engineering Technology

Accredited by TAC of ABET
Advisors: G. D. Alungbe, P.E. (832-1824),
 and E. Sarisley, P.E. (832-1817)

This major provides students with a back-
 ground 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, struc-
 tures and use of the computer in the civil and
 construction industries.

Major Requirements

51 credits as follows:

	Credits
ET 150 Introduction to Engineering Technology	3
ET 251 Applied Mechanics I — Statics	3
ET 252 Applied Mechanics II — Dynamics	3
ET 354 Applied Fluid Mechanics	3
ET 357 Strength of Materials	3
ET 497 Engineering Economy	3
ETC 122 Introduction to CAD for AEC I	3

ETC 353 Introduction to Surveying	3
ETC 356 Materials of Construction	3
ETC 397 Structural Analysis	3
ETC 451 Soil Mechanics and Foundations	3
ETC 454 Introduction to Transportation Engineering	3
ETC 457 Advanced Surveying	3
ETC 458 GPS Mapping for GIS	3
ETC 470 Structural Steel Design	3
ETC 471 Reinforced Concrete Structures	3
ETC 475 Hydrology and Storm Drainage	3
ETC 498 Engineering Technology Senior Project (Capstone)	3

Additionally, the following courses are
 required.

CET 113 Introduction to Information Processing	3
CML 155 Construction Documents	3
CET 233 Advanced Electrical Circuits	3
CHEM 121 General Chemistry I	4
CHEM 122 General Chemistry II	4
MATH 119 Pre-Calculus with Trigonometry	4
or	
MATH 121 Pre-Calculus Mathematics	3
STAT 104 Elementary Statistics	3
CS 213 Applications of Computer Programming	3
or	
ET 240 Spreadsheet Tools for Engineers	3
ENG 403 Technical Writing	3
Directed technical electives selected in consultation with an academic advisor	7
Free elective	3

The following courses, selected in con-
 sultation with an academic advisor, satisfy the
 Directed Technical Electives requirement:

ET 495 Topics in Engineering Technology	3
ETC 123 Introduction to CAD for AEC II	3
ETC 472 Timber Structures	3
ETC 476 Environmental Technology	3
ETM 358 Applied Thermodynamics	3

**(ii) Manufacturing Engineering
 Technology**

Accredited by TAC of ABET

Advisors: L. Lema, CMfgE (832-1821),
 E. Maydock (832-1818), and Z. Prusak
 (832-1826)

This major develops concepts employed by
 manufacturing industries to increase produc-
 tivity, reduce cost and efficiently use tools and
 machinery. Emphasis is on the areas of manu-
 facturing, process planning, CAD/CAM, pro-
 duction techniques and the application of
 mathematics and computers.

Major Requirements

Forty-two (42) credits as follows:

ET 150 Introduction to Engineering Technology	3
ET 251 Applied Mechanics I — Statics	3
ET 252 Applied Mechanics II — Dynamics	3
ET 357 Strength of Materials	3
ET 497 Engineering Economy	3
ETM 260 Computer Aided Design and Integrated Manufacturing	3
ETM 340 Geometric Dimensioning and Tolerancing	3
ETM 356 Material Analysis	3
ETM 360 Computer Aided Planning (CAP)	3
ETM 461 Composites and Plastics Manufacturing Processes	3
ETM 462 Manufacturing Process Planning and Estimating	3
ETM 466 Design for Manufacture	3
ETM 498 Engineering Technology Senior Project (Capstone)	3

Directed technical electives selected in
 consultation with an academic advisor 3

Additionally, the following courses are
 required.

CET 113 Introduction to Information Processing	3
CET 233 Advanced Electrical Circuits	3
EMEC 324 Fluid Power Systems	3
IT 290 Statistical Process Control and Metrology	3
IT 480 Robotics	3
MFG 121 Technical Drafting and CAD	3
MFG 216 Manufacturing Processes	3
MFG 226 Principles of Computer Numerical Control	3
MFG 236 Tool Design	3
CHEM 121 General Chemistry I	4

MATH 119	Pre-calculus with Trigonometry	4
or		
MATH 121	Pre-Calculus Mathematics	3
STAT 104	Elementary Statistics	3
CS 213	Applications of Computer Programming	3
or		
ET 240	Spreadsheet Tools for Engineers	3
ENG 403	Technical Writing	3
Free elective		1-5

(iii) Mechanical Engineering Technology

Accredited by TAC of ABET

Advisors: P. Baumann (832-0086), A. Gates, P.E. (832-1823), and O. Powell, P.E. (832-1820)

This major integrates the aspects of energy conversion, mechanism control, heat and mass transfer, machine dynamics and design with computer design and analysis to prepare engineering support personnel to assist in the design of machinery and instrumentation for industrial, transportation and utility applications. The mechanical engineering technologist makes significant contributions in supporting engineering design, testing, production, research and development operations in a wide variety of industrial, aerospace and government organizations.

Major Requirements

51 credits as follows:

ET 150	Introduction to Engineering Technology	3
ET 251	Applied Mechanics I — Statics	3
ET 252	Applied Mechanics II — Dynamics	3
ET 354	Applied Fluid Mechanics	3
ET 357	Strength of Materials	3
ET 497	Engineering Economy	3
ETM 260	Computer Aided Design and Integrated Manufacturing	3
ETM 340	Geometric Dimensioning and Tolerancing	3
ETM 356	Material Analysis	3
ETM 358	Applied Thermodynamics	3
ETM 367	Machine Design	3
ETM 462	Manufacturing Process Planning and Estimating	3
ETM 464	CAD Solid Modeling and Design	3
ETM 466	Design for Manufacture	3
ETM 467	CAE Applied Finite Element Analysis	3

ETM 498	Engineering Technology Senior Project (Capstone)	3
Directed technical electives selected in consultation with an advisor		
		3

Additionally, the following courses are required.

CET 113	Introduction to Information Processing	3
CET 233	Advanced Electrical Circuits	3
EMEC 324	Fluid Power Systems	3
EMEC 334	Mechanisms for Automation	3
MFG 121	Technical Drafting and CAD	3
MFG 216	Manufacturing Processes	3
CHEM 121	General Chemistry I	4
MATH 119	Pre-calculus with Trigonometry	4
or		
MATH 121	Pre-Calculus Mathematics	3
STAT 104	Elementary Statistics	3
CS 213	Applications of Computer Programming	3
or		
ET 240	Spreadsheet Tools for Engineers	3
ENG 403	Technical Writing	3
Free elective		2-7

Manufacturing and Construction Management

P. J. Resetarits, *Chair*; S.R. Bennett; D.C. Dowty; G. C. Ku; J. P. Kovel; R.J. Perreault; M.C. Vincenti (*Dept. phone 832-1830; Fax 832-1806; e-mail: Resetarits@ccsu.edu; Web site: www.technology.ccsu.edu*)

The Manufacturing and Construction Management Department offers the following undergraduate (Bachelor of Science degree) and graduate (Master of Science degree) programs:

- BS Construction Management
- BS Industrial Technology with specializations in
 - Manufacturing
 - Environmental and Occupational Safety
 - Electro-Mechanical Technology

- Technology Management
- Quality Management
- MS Technology Management

The Manufacturing and Construction Management Department offers programs designed to prepare students for technology-oriented supervisory, middle management and leadership positions. The programs respond to an increasing industry demand for highly qualified personnel who have a combination of technical and managerial skills. Therefore, this study includes a comprehensive knowledge of manufacturing and construction processes and applied technologies, in addition to a background in general education. Providing broad range of educational and career enhancement opportunities, the Department prepares graduates for careers in rapidly changing technical fields.

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.

CONSTRUCTION MANAGEMENT MAJOR, B.S. (72 credits)

Advisors: S. R. Bennett (832-1835), J. Kovel (832-0192), R. J. Perreault (832-1836)

This sequence of courses is designed to supply the student with 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 the field of Construction Management.

Major Requirements		Credits
CM 125	Construction Graphics	3
CM 135	Construction Quantity Surveying	3
CM 235	Building Construction Systems	3
CM 245	Heavy/Highway Construction Systems	3
CM 255	Construction Business Principles	3
CM 335	Construction Safety	3
CM 435	Construction Superintendency	3

CM 465	Construction Internship	3
CML 155	Construction Documents	3
CML 325	Building Construction Estimating	3
CML 345	Heavy/Highway Construction Estimating	3
CML 355	Construction Planning	3
CML 455	Construction Project Management	3
ET 251	Applied Mechanics I—Statics	3
ETC 353	Introduction to Surveying	3
ETC 356	Materials of Construction	3
ETC 405	Applied Structural Systems	3
Free Electives		(0–4)

Other Required Electives (21 credits):

AC 211	Introduction to Financial Accounting	3
MGT 295	Fundamentals of Management and Organizational Behavior	3
ENG 403	Technical Writing	3
LAW 250	Legal Environment of Business	3
MKT 295	Fundamentals of Marketing	3
MATH 125	Applied Calculus I	3
CET 113	Introduction to Information Processing	3

Requirements in General Education (46–53 credits):

Study Area I — 9 credits, including Literature elective (3) and PHIL 242; Study Area II — 9 credits: History elective (3) and ECON 200 and 201; Study Area III — 6 credits, recommended to include PSY 112; Study Area IV — 8 credits: CHEM 121 and PHYS 121; Skill Area 1 — 6 credits: ENG 110 and COMM 115 or 140; Skill Area II — 6 credits: STAT 200 and MATH 115; Skill Area III — 0–6 credits; Skill Area IV — 2–3 credits

Note: A total of 122 credits are required for the degree.

INDUSTRIAL TECHNOLOGY MAJOR, B.S. (63 credits)
Accredited by NAIT

Industrial Technology majors, regardless of the program selected, are required to complete a common core of 24 credits in technical and management courses as part of

their program. Courses included within these common requirements are as follows:*

Industrial Technology Core Courses

		Credits
IT 190	Introduction to Quality Assurance	3
IT 362	Leadership Skills for Supervisors	3
IT 401	Industrial Internship	3
IT 410	Industrial Safety	3
MGT 295	Fundamentals of Management and Organizational Behavior	3
ENG 403	Technical Writing	3
AC 210	Principles of Industrial Accounting	3
MKT 295	Fundamentals of Marketing	3

*Requirements are different for Construction Management Specializations.

General Education Requirements

A total of 44–46 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: Skill Area I — ENG 110, COMM 140; Skill Area II — STAT 104, MATH 115; Study Area II — ECON 201; Study Area IV — CHEM 111 with lab, PHYS 111 with lab.

INDUSTRIAL TECHNOLOGY SPECIALIZATION PROGRAMS

Each student should identify a program based on individual interests and goals. Six undergraduate programs are available; each is shown with its course requirements.

Manufacturing

Advisor: M. C. Vincenti (832-1838)

This specialization is designed to prepare students primarily for middle management and supervisory positions that are production oriented. Areas of study include production control, computer-based manufacturing technology, lean manufacturing, supply chain strategy, cost estimating, production supervision, and quality control. (Related job titles include industrial engineer, production supervisor, and quality control supervisor.)

Specialization Requirements	Credits
MFG 118	Intro. to Material Processing 3
MFG 121	Technical Drafting & CAD 3
MFG 216	Manufacturing Processes 3
MFG 226	Principles of CNC 3
MFG 236	Tool Design 3
MFG 366	Manufacturing Supply Chain Strategy 3
MFG 376	e-Manufacturing 3
MFG 496	Lean Manufacturing 3
IT 458	Productivity Improvement 3
CET 113	Intro. to Information Processing 3
ETM 260*	CAD/CAM/CIM 3
ETM 356	Materials Analysis 3

*Must be taken in residence.

Environmental and Occupational Safety
Advisor: G. Ku (832-1852)

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 Environmental and Occupational Safety will prepare students for management positions as safety professionals in private industry and federal, state and local government.

Specialization Requirements	Credits
CET 113	Intro. to Information Processing 3
EMEC 114	Intro. to Energy Processing 3
MFG 118	Intro. to Material Processing 3
MFG 121	Technical Drafting and CAD 3
ET 300	Human Factors Engineering (Ergonomics) 3
IT 359	Plant Layout 3
IT 411	Industrial Hygiene 3
IT 414	Industrial Loss Control Management 3
CM 335	Construction Safety 3
IT 456	Hazardous Material Management 3
BIO 132	Introductory Ecology 3
BIO 133	Lab. in Introductory Ecology 1
Electives—	Technical and Management Evaluation Techniques in Industrial Hygiene 3
IT 421	

or

ETC 476 Environmental Technology 3

Electro-Mechanical Technology

Advisor: D. Dowty (832-1816)

The mission of this program is to educate students in technical management as it applies to electro-mechanical technology. Students develop their technical skills in the laboratory. Course work is provided in the areas of hydraulics, pneumatics, mechanical motion control, programmable logic controllers, servo and no-servo robotics, engines, electrical motors and generators, and industrial electricity. Emphasis is placed on data acquisition and feedback mechanisms and the use of various control devices, including personal computers, programmable logic controllers, and sequence controllers. Culminating experiences in management provide graduates with the skills to become supervisors, project managers, production automation technicians, and technical salespeople in the field.

Specialization Requirements	Credits
CET 113 Intro. to Information Processing	3
EMEC 114 Intro. to Energy Processing	3
MFG 118 Intro. to Material Processing	3
MFG 121 Technical Drafting and CAD	3
CET 223 Basic Electrical Circuits	3
EMEC 303 Electro-Mechanical Converters	3
EMEC 323 Mechatronics	3
EMEC 324 Fluid Power Systems	3
EMEC 333 Data Acquisition and Control	3
EMEC 334 Mechanisms for Automation	3
EMEC 463 Programmable Logic Controllers	3
IT 480 Robotics	3

Note: A minor is not required for this major.

Technology Management

Advisor: P. J. Resetarits (832-1834)

This specialization has been developed to allow students to develop a custom plan of study utilizing various existing technical and management courses. Students transferring credits in from other institutions of higher

education can use those credits in this specialization. The Technology Management Specialization requires the student to complete the 24 credits in the Industrial Technology core courses plus 39 credits of Technical and Management Electives.

Specialization Requirements Credits
 Technical and Management Electives 39
 Courses selected in consultation with, and approved by, advisor. At least one half of the elective credits must be at the 300 or 400 level.

Note: A minor is not required for this major.

Quality Management

Advisor: P. J. Resetarits (832-1834)

This specialization is designed to prepare students for a variety of Quality Management positions in manufacturing and service industries. Graduates will have a solid background in the various quality system standards in use today. They will have expertise in the use of numerous quality control tools and techniques. They will possess the knowledge required to lead and implement quality improvement efforts in a broad spectrum of business environments.

Specialization Requirements	Credits
CET 113 Intro. to Information Processing	3
EMEC 114 Intro. to Energy Processing	3
MFG 118 Intro. to Material Processing	3
MFG 121 Technical Drafting and CAD	3
IT 290 Statistical Process Control and Metrology	3
IT 359 Plant Layout	3
IT 360 Production Control	3
IT 390 Auditing Quality Systems Standards	3
IT 458 Productivity Improvement	3
IT 490 Quality by Design	3
ETM 356 Materials Analysis	3

Electives—Technical and Management, select from the following (total 6)

ET 300 Human Factors Engineering (Ergonomics)	3
ETM 340 Geometric Dimensioning and Tolerancing	3

Technology Education

J. A. DeLaura, *Chair (832-1857)*,
 P. Foster (*Dept. phone 832-1850; Fax 832-1811; Web site: www.technology.ccsu.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 degree programs in Technology Education
- Planned post master's—no certificate or degree

Specific requirements for the planned fifth year, master of science degree program and post master's programs in Technology Education are stated in the graduate catalog.

TECHNOLOGY EDUCATION

The Technology Education curriculum prepares individuals for teacher certification, grades K–12. Emphasis is placed on designing, developing and utilizing technological systems; open-ended problem-based design activities; cognitive, manipulative and affective learning strategies; and applying technological knowledge and processes to real-world experiences utilizing up-to-date resources. Technology Education majors complete a core of technology courses involving classroom and laboratory experiences with the materials, machines, systems and concepts related to technology. In General Education, technology majors experience courses in the humanities, social and behavioral sciences, mathematics, natural sciences, fine arts and physical education. Preparation as a technology educator culminates with a core of professional education courses involving teaching strategies, evaluation, curriculum development and student teaching.

Individuals who already have a bachelor's degree who desire to meet certification requirements for teaching Technology Education in Connecticut should contact Mr. Peter Rodrigues (832-1857).

TECHNOLOGY EDUCATION MAJOR, B.S.

Advisors: J. A. DeLaura, P. Foster

General Education Requirements

A total of 44–46 credits in General Education studies must be completed as part of all baccalaureate degree programs. See the General Education section in this catalog.

Technology Education students are required to take ENG 110, HIST 261 or 262, PSY 236, TE 110, PHYS 111, CHEM 111, STAT 104. These courses count toward the overall General Education requirements. MATH 115 and COMM 115 or 140 are recommended.

Note: This major does not require a minor.

Technology Education Professional Requirements

Students are required to take TE 199, 399, 400 and 428. All of these courses may not be available each semester and are seldom available during the summer sessions; refer to the course description section of this catalog for information.

Technology Education Technical Requirements

Technology Education majors are required to take CET 113, EMEC 114, MFG 118, MFG 121, GRT 212, and TE 213, 214, 215, 410, 420, 430, 445, and 450. Students may take additional technical courses, indicated by the TC prefix, approved by their Technology Education advisor to fulfill their General Education requirements. Each major in Technology Education must complete at least 6 credits in each of the following areas: communication, production and transportation.

Professional Education Requirements

Technology Education majors are required to take SPED 315, EDSC 375, EDF 400 or 415, EDTE 316, EDSC 414 and 415, and RDG 440.

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 course work. At least 15 of these credits must be in TC or TE courses. Applications are available from the Dean of Education and Professional Studies, Barnard Hall, and must be filed prior to September 21 or February 21. Acceptance is prerequisite to taking TE 400, EDSC 375, 414 and 415,

EDF 400 or 415, EDTE 315 and SPED 315. 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 for additional information.

VOCATIONAL-TECHNICAL EDUCATION

Coordinator: M. Furtado-Holloway (832-1807)

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 Comprehensive High Schools 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-Related Experience:**
- Trade and Industrial Occupational Subjects Teachers (Comprehensive High Schools) —** 3 years of appropriate work experience
- Trade-Related Subjects Teachers (CT Vocational-Technical Schools) —** 3 years of appropriate work experience
- Occupational Subjects (CT Vocational-Technical Schools) —** 8 years of appropriate work experience

Certification Requirements:
18 credits in VTE and 12 credits in Professional Education

Initial Educator Certificate

	VTE	Prof. Ed	Credits
VTE 113	Intro. to Teaching VTE		3
VTE 116	Teaching VTE		3
*SPED 315	Intro. to Educating Learners with Exceptionalities		3

Provisional Educator Certificate

No course work required — 30 months of successful teaching

Professional Educator Certificate

	VTE	Prof. Ed	Credits
VTE 328	Shop Organization and Management		3
VTE 400	Evaluating Student Achievement		3
VTE 415	Principles of Vocational Education		3
VTE 455	Labor Market Trends and Student Job Readiness		3
PSY 236	Life-Span Development		3
RDG 440	Literacy in the Secondary School		3
CET 113	Introduction to Information Processing		3
or			
EDT 490	Instructional Computing		3

*VTE certification students are exempt from Admission to the Professional Program.

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 415	Principles of Vocational Education	3
VTE 450	Principles and Organizations of Cooperative Work Education	3
VTE 455	Labor Market Trends and Student Job Readiness	3
SPED 315	Introduction to Educating Learners with Exceptionalities	3

**Prereq.: Holds or is eligible for secondary-level certification. One year work experience, three years teaching experience required.

Cooperative Technology Programs

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 core 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 completion of the following college credits.

THE ENGINEERING TECHNOLOGY PATHWAY/DEGREE PROGRAM

The Engineering Technology Pathway prepares students for entry into the Engineering Technology department in CCSU's School of Technology. After completion of two years of initial study at a Community College and another two years at Central, the student will receive a Bachelor of Science degree with a major in any one of the three programs listed below. The civil, manufacturing and mechanical engineering technology programs are accredited by TAC of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202; phone: 410/347-7700. A minimum grade of "C" in the courses listed below will transfer into any of the five Engineering Technology programs currently offered at Central.

Engineering Technology Programs:

- Civil
- Manufacturing
- Mechanical

Engineering Technology Curriculum

Arts/Humanities/Social Science/Behavioral Science/Communication:

English Language (Freshman Composition)	3
Technical Writing	3
Public Speaking	3
English Literature	3
Philosophy, Fine Arts or English Literature	6
History	3
Economics, Geography, Political Science or History	3

Anthropology, Psychology or Sociology	3
<i>Subtotal (maximum)</i>	27

Natural Science/Mathematics:	
General Chemistry I with Laboratory	4
General or University Physics I with Lab	4
General or University Physics II with Lab	4
Statistics	3
Pre-calculus or Pre-calculus with Trigonometry	3 or 4
Calculus I or Applied Calculus I	4 or 3
Calculus II or Applied Calculus II	4 or 3
<i>Subtotal (minimum)</i>	24

Engineering Technology/Engineering Science:	
Applied Mechanics I (Statics)	3
Applied Mechanics II (Dynamics)	3
CAD: AutoCAD (Civil only)	3
CAD: CADkey (Other ET Programs)	3
Introduction to Computers	3
Computer Programming	3
Introduction to ET or Engineering	3
<i>Subtotal (minimum)</i>	18

Total credits 69

TECHNOLOGY PATHWAY/DEGREE PROGRAM

The Technology Pathway, for entry into CCSU's School of Technology or Charter Oak State College, consists of courses which provide for a bachelor of science degree from Charter Oak State College, with a minor in technology, or from Central in one more of the fields listed below. A minimum course grade of "C" and the hours of credit described below are required for continuing at CCSU's School of Technology or at Charter Oak.

Industrial Technology

- Construction Management
- Environmental/Occupational Safety
- Electronics Technology
- Graphic Arts/Design
- Manufacturing
- Technology Management
- Quality Management
- Computer Networking
- Electro-Mechanical

Industrial Technology Curriculum

Arts/Humanities/Social Science/Behavioral Science/Communication:	
English Language (Freshman Composition)	3
Public Speaking	3
English Literature	3

Philosophy, Fine Arts or English Literature	6
History and ECON 201	6
Geography, Political Science or History	3
Psychology or Sociology	3
<i>Subtotal</i>	27

Natural Science/Mathematics:	
Intro. to Chemistry	3
Intro. to Physics	3
Statistics	3
Trigonometry	3
<i>Subtotal</i>	12

Technology/Management:	
Technical Drafting/CAD	3
Introduction to Computers	3
Technical Writing	3
Mgt. Elective	3
Directed Electives	12
<i>Subtotal</i>	24

Total Credits 63

Technology Education

Program leading to certification to teach technology education in grades K-12 in the public schools of Connecticut. In addition to careers in public school teaching, technology education graduates may also function as instructors or supervisors in private and post-secondary schools, industry, government and rehabilitation programs.

Technology Education Curriculum

Arts/Humanities/Social Science/Behavioral Science/Communication:

English Language (Freshman Composition)	3
Public Speaking	3
English Literature	3
Philosophy, Fine Arts or English Literature	6
U.S. History	3
Economics, Geography, Political Science or History	6
Psychology-Life Span Development	3
Anthropology, Psychology or Sociology	3
<i>Subtotal</i>	27

Natural Science/Mathematics:	
Intro. to Chemistry	3
Intro. to Physics	3
Statistics	3
Trigonometry	3
<i>Subtotal</i>	12

Technology:	
Technical Drafting/CAD	3
Introduction to Computers	3

Intro. to Energy Processing	3	of 30 credits or up to 60 credits at any CSU campus with at least a grade "C" in each course before continuing at Central.
Intro. to Material Processing	3	
Electrical Energy	3	
Mechanical Energy	3	
Graphic Arts Industries	3	
Directed Elective	3	The pathway coordinator has been identified at each CSU campus. For information, contact the Associate Dean of the School of Technology at CCSU.
<i>Subtotal</i>	24	
Total Credits	63	

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 course work
- the opportunity to begin their education on a full- or part-time basis at any of 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

Technology Pathway Program

The CSU-CCSU Technology Pathway Program is an integrated curriculum allowing individuals to begin their studies at any CSU campus (Southern, Eastern or Western) and advance directly to any program in the School of Technology at Central Connecticut State University. The Pathway Program will provide the foundation or the initial two years of a bachelor of science degree.

The School of Technology at Central Connecticut State University offers the only programs of study in Technology Education, Industrial Technology and Engineering Technology in the Connecticut State University System. Each degree program has a variety of technical specializations designed to provide students with a balance of classroom learning (theory) and activity-based laboratory (practical application) courses. In addition, the School of Technology's cooperative education program provides opportunities for students to work with major industries in a variety of technical and engineering areas. Graduates of the programs enter the workforce with the knowledge and confidence needed to compete and succeed in today's industrial and technological marketplace.

This program provides a direct entry to the School of Technology at CCSU without loss of credit or having to repeat course work. A student can complete a minimum

COOPERATIVE EDUCATION PROGRAM

Cooperative Education is an academic program which integrates 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, non-credit program.

CCSU'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 often helps students finance their University education.

Co-op students are assigned to a Cooperative Education coordinator who guides their career development and develops appropriate Co-op placements. In the Co-op Career Development Seminar students receive instruction in skills that make the difference in today's job market: résumé writing, interviewing techniques, career planning and job-seeking strategies.

Through participation in the Co-op program, students can 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. 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 after they have completed 45 credits.
- 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 third week of the fall semester; Group B students must apply no later than the third 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 45 credits. Currently, it costs \$400 per year to be enrolled in the Co-op program. Students are billed \$200 per semester.

CCSU offers an interdisciplinary degree program in International Studies, with specializations leading to the bachelor of arts degree for students in Arts and Sciences.

Minors in African Studies, East Asian Studies, Latin American Studies, Slavic and East European Studies and European Union/Western European Studies are also offered.

Each student planning to major in International Studies should contact the International Studies Program Director (832-2126). Students planning a minor in a region, or those interested in a region as part of the B.A. major program, should contact the coordinator of the appropriate area studies program.

International Studies

INTERNATIONAL STUDIES

MAJOR, B.A.

57 credits as follows:

Core Curriculum (12 credits)

IS 225 The World as a Total System

IS 475 Senior Project

and two of

GEOG 120 World Regional Geography

HIST 122 World Civilization II

PS 104 The World's Political Systems

Regional Specialization (15 credits)

Courses in the language, literature and social or behavioral science of a particular world region selected in consultation with a faculty advisor.

Modern Language (18 credits)

Courses in a single modern language or demonstration of competency in reading, writing, speaking and understanding of a single modern language equal to completion of the 226 level, as determined by a CCSU instructor of the language and/or the chair of the Modern Languages Department.

Directed Electives (12 credits)

Courses in either the Regional Specialization or a related area, or those designated International, or those labeled International Studies; selected in consultation with a faculty advisor.

Structured International or Multicultural Experience

At least one semester of faculty-supervised, in-depth exposure to another way of life.

Note: Students will be encouraged to select a Regional Specialization coinciding with existing CCSU Area Studies programs, although a specialization from other world regions may be selected if desired and courses are available.

Note: The Modern Language selected must be related to the Regional Specialization.

Note: Students who complete the Modern Language component with fewer than 18 credits must take additional courses, in either the Regional Specialization and/or Directed Electives, selected in consultation with a faculty advisor.

Note: Ideally, International Studies majors will spend one academic year abroad. As an alternative, IS faculty will assist students to develop a local multicultural experience related to the student's academic track or regional specialization.

Note: A minor is not required for this major.

African Studies

C. C. Mate-Kole, *Director, Center for Africana Studies, and Coordinator, African Studies Program (832-3105)*; G. Alungbe, A. Antar, C. Austad, F. Best, W. Brown Foster, J. Buxton, C. Carter-Lowery, T. Darko, G. Emeagwali, P. English, S. Fafunwa-Ndibe, K. Harris, B. Johnson, P. Kyem, C. Larson, P. LeMaire, A. Moemeka, E. Newman-Phillips, S. Odesina, P. Osei, W. Perry, T. Rickard, R. Rush, S. Sogunro, R. T. White

Minor in African Studies

18 credits including HIST 375, 376, PS 421, 434 and 6 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. in International Studies.

East Asian Studies

S. Tomoda, *Coordinator (832-2892)*; G. Altman, M. Jones, Y. Ju, K. H. Kim, C. S. Lien, J. McKeon, P. Petterson, X. Shen

Minor in East Asian Studies

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 minor.

Major

Students wishing to construct a major program in East Asian Studies may do so using the framework provided by the B.A. in International Studies.

European Union/ West European Studies

C. Pesca, *Coordinator (832-2882)*; R. Benfield, P. Lapuerta, A. Morales, M. Passaro, P. Petterson, T. Rickard, K. Ritzenhoff

Minor in European Union/ West European Studies

18 credits, including ECON 430, GEOG 452, HIST 444, PS 336 and 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, culture or other suitable regional courses in consultation with an advisor.

Major

Students wishing to construct a major program in European Union/West European Studies may do so using the framework provided by the B.A. in International Studies.

Latin American Studies

A. Garcia-Lozada, *Coordinator (832-2895)*;
R. Fernandez, *Director of Caribbean Studies*;
A. Adams, W. Brown-Foster, G. Caliendo-Reed, A. Chavarro, F. Donis, G. Mejía, S. Mendez-Mendez, C. Pope, A. Richard, M. Salinas, L. Uribe

A brochure describing the programs in depth is available from the coordinator.

Minor in Latin American Studies

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; SPAN 261, 316, 376.

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

*Courses can be used to satisfy program requirements with the approval of the Program Coordinator. Courses taken as a part of this minor may not also be used to fulfill requirements of the student's major. Note prerequisites where applicable.

Minor in Caribbean Studies

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 minors must register with the Program Coordinator.

Major

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

Middle Eastern Studies

A. Antar, *Coordinator (832-2932)*;
F. Abdollahzadeh, K. Beyard, A. Cannella, G. El-Eid, G. Emeagwali, J. McKeon, N. Mezvinsky, A. Papathanasis, T. Rickard, N. Sadanand

Minor in Middle Eastern Studies

18 credits including HIST 472, PS 434, 439 and 12 credits from HIST 473, 474, PS 339, 439, 491.

Major

Students wishing to construct a major program in Middle Eastern Studies may do so using the framework provided by the B.A. in International Studies.

Slavic/East European Studies

R. Benfield, *Coordinator (832-2879)*;
G. Altman, J. Bergman, M. Biskupski, I. Gotchev, P. Karpuk, D. Kideckel, J. Strzemien, E. Wolynska

Minor in Slavic/East European Studies

18 credits, including at least 9 selected from the following: ANTH 426, GEOG 448, HIST 348, 356, 479, or PS 435. Study of an East European language at an equivalent level is strongly recommended. Courses in Polish Studies may be applied to a Slavic/ East European minor (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. in International Studies. For a sample program please contact the coordinator.

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. in International Studies. For a sample program, please contact the coordinator.

African-American Studies

F. Best, *Director (832-2910 or 2817)*;
African-American Studies Committee:
G. Alungbe, D. Blitz, J. Buxton,
C. Carter-Lowery, G. Emeagwali,
W. Brown Foster, B. Johnson,
M. Mentzer, S. Pease, W. Perry,
E. Phillips, H. Salahu-Din, R. White

The African-American Studies minor offers a broad curriculum dedicated to the study of Black life in the Americas and the Diaspora from 1350 to the present. The African-American Studies Program develops and coordinates an interdisciplinary curriculum. Its objectives are to encourage all students and faculty to examine the African-American experience, to facilitate a cultural and intellectual atmosphere on campus that will be favorable to such studies, and to develop a program of research and community service. The program also has a "nationally recognized" African-American lecture series, featuring nationally and internationally known scholars in the field of Black Studies.

The African-American Studies Center, located in Marcus White 101, has a lending library for students and faculty. In addition to the ongoing lecture series the program also hosts the traditional celebration of Black History Month during February with rich and diverse activities such as a film series, art exhibits and student debating contests.

Minor in African-American Studies

Students completing a minor in African-American Studies must have 21 credits, including AFAM 110; HIST 369 and 469; and PHIL 360 which is required of all students. In addition, students must have fifteen credits of electives which may be selected from the following courses: HIST 497 (African History Through Film and African-American Women's History); HUM 490 (African Civilization: A Voyage into the Past and Present); REL 361 (African-American Religion); PHIL 360 (African-American Philosophy); ART 100; ENG 212, 345; CRM 478 (Gender, Race and Crime); SOC 322; ANTH 200, 300, 316, 320, 352, 424; PSY 430; COMM 495 (African-American Speakers); IT 402 (Technology of African Americans).

American Studies

R. Dunne, *Coordinator (832-2756)*;
C. Doyle, S. Gilmore, E. Langhorne,
V. Martin, H.M. Prescott, R. Todd,
M. Warshauer

The American Studies minor gives students the opportunity to explore the diverse culture of the United States in an interdisciplinary context. In consultation with an American Studies advisor, 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 who wish to take such a program at a CCSU extension college abroad.

Minor in American Studies

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

1. 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*
2. ANTH 352*, ANTH 422, CRM 110, CRM 231¹, GEOG 241, GEOG 330*, PS 331, PS 332, PS 430, PS 431, SOC 322*¹
3. ART 414, ART 215*¹, MUS 401², PHIL 382², PHIL 400², REL 257², TH 275

Students may take AMS 490: Internship in American Studies as a substitute for one of the above areas.

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

15 credits, distributed as follows: 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 repre-

sent diversity in American society. Courses that satisfy this requirement are indicated by an asterisk (*).

Other certificate options are available, including non-credit certificates. See the program coordinator for information.

¹ Note prerequisites

² Under section or topic approved by the American Studies Committee

Hospitality and Tourism Studies

D. Truly, *Interim Director (832-2797)*;
R. Benfield, B. Greenfield, A. Jackson,
K. Koh, W. Perry, T. Rickard, D. Scherban,
J. Weinberger

Hospitality and Tourism involves the business of attracting, transporting, lodging, entertaining and providing food and beverages to people. It is one of the fastest growing segments in Connecticut's economy. This course of study is designed as an interdisciplinary program between the Geography Department of the School of Arts and Sciences and the Marketing Department of the School of Business, leading to a B.S. degree in Hospitality and Tourism. Students are encouraged to visit the program Web site at <http://www.ccsu.edu/tourism> for further information and updates on our expanding Tourism curriculum.

Major in Hospitality and Tourism, B.S.

This 54-credit program consists of 21 credits in foundation courses in Business and Geography, 15 credits of required core courses, and 18 credits in either the Hospitality Studies/Transfer track or the Tourism Studies track.

Foundation Courses		Credits
AC 211	Introduction to Financial Accounting	3
GEOG 120	World Regional Geography	3
GEOG 290	Geography of Tourism	3
FIN 200	Introduction to Finance	3
MGT 295	Fundamentals of Management and Organizational Behavior	3
MIS 201	Introduction to MIS	3
MKT 295	Fundamentals of Marketing	3
		Credits 21

Tourism/Hospitality Core Courses	
GEOG 450 Tourism Planning	3
GEOG 454 Geography of Tourism Marketing	3
MKT 308 Introduction to Hospitality	3
THS 410 Tourism and Hospitality Operations	3
THS 490 Topics in Tourism and Hospitality	3
	Credits 15

Hospitality Studies/Transfer Track

18 credits of courses, approved by a faculty advisor, taken at another institution. The following courses have been approved for transfer from state community colleges; other courses may be substituted with the approval of program director. HRSM is not a CCSU course designator; this refers to a community college course.

HRSM 202 Introduction to Beverage	3
HRSM 203 Food Purchasing/Preparation	3
HRSM 214 Human Resources Management	3
HRSM 231 Consumer Research and Marketing	3
HRSM 241 Hotel Management	3
HRSM 270 Cooperative Education/ Internship	3
	Credits 18

or

Tourism Studies Track

Students select 18 hours from the following courses with approval from their faculty advisor. Additional courses can be substituted with permission of program director:

ENG 382 Travel Writing	3
GEOG 425 Internship in International Hospitality Studies	3
GEOG 451 Tourism Development in Southern New England	3
GEOG 453 Recreational Planning	3
GEOG 455 New Directions in Tourism	3
MKT 359 Special Events	3
MKT 497 Marketing Internship	3

To fulfill requirements in the Tourism Studies track, students may choose a maximum of two courses from the following list of Regional Geography courses:

GEOG 330 United States and Canada	3
GEOG 434 Mexico, Central America, and the Caribbean	3
GEOG 435 Japan and Korea	3
GEOG 436 South America	3
GEOG 437 China	3
GEOG 439 Urban Geography	3
GEOG 446 Sub-Saharan Africa	3

GEOG 448 Russia and Neighboring Regions	3
GEOG 452 European Union	3

Note: In no case may a student exceed 24 credits in Business courses.

Internet and Multimedia Studies

M. Triebwasser, *Program Coordinator* (Phone: 832-2970); S. Adair, J. Calvert, M. Gendron, J. Harmon, J. Larkin, R. McCarthy, K. Ritzenhoff, B. Sponder

The goal of this program is to increase electronic literacy, develop sensitivity to the value implications of the technologies used in cyberspace, and lay the foundation for the future development of various areas of expertise.

A minor in IMS allows students to take courses in various departments on the technical skills needed to develop cyberspaces, such as multimedia computing and Web site development. It also involves them in courses in the social sciences and humanities which concentrate on the value implications of cyberspace. It is the intention of this minor to produce people who are both generally skilled technically and aware of the political and aesthetic values involved in the personal and societal application of these skills.

A major focus of this minor is a hands-on and apprenticeship approach to learning. As such, the capstone course in this minor is a Senior Project or Independent Study in which students work on a specific project, along with a mentor.

Minor in Internet and Multimedia Studies

18 credits, six of which must be at the 300 or 400 level, distributed as follows:

I. Core (6 credits):

IMS 110 and IMS 210.

II. Human Interactions in Cyberspace (3 cr.):

Student will choose one course from the following (or an approved substitute): COMM 230, CS 210, CS 495, ENG 418, PHIL 335, PS 315, SOC 478.

III. Methodologies in Internet and Multimedia Development (3 cr.):

Student will choose one course from the following (or an approved substitute): BUS 401, COMM 330, CS 110, CS 151, DES

126, EDT 490, GEOG 378, MIS 201, MUS 112, CET 113.

IV. Advanced Study (3 cr.):

A second course approved by the Program Coordinator to be chosen from the courses listed under Categories II or III (or an approved substitute) intended to augment the experience gained in the first course. This course may be an approved prerequisite to a listed course.

V. Capstone Experience (3 cr.):

Student, in consultation with the Program Coordinator, will choose one of the following: IMS 480, IMS 490 or a qualified senior project in a related department or program.

Peace Studies

C. Austad (Phone: 832-3101), D. Blitz (832-2916) (*coordinators*). Peace Studies Committee: M. Alewitz, A. Antar, W. Brown-Foster, G. El-Eid, N. Mezvinsky, N. Sadanand

Peace Studies is an interdisciplinary program concerned with the origins of war and the prospects for peace. Topics to be considered include just war theory, types of pacifism, the nature of wars, conflict resolution and the history of peace movements, deterrence theory, weapons of mass destruction, and problems of international security. The program offers students the opportunity to study conflicts and peace efforts in specific regions of the world and to produce a senior thesis on a topic of their choice.

Minor in Peace Studies*

18 credits as follows:

PES 110, PES 410 and 12 credits from any of the following: ART 270, HIST 472, HIST 474, PHIL 345, PS 235, PS 345, PS 380.

* pending approval by DHE

Religious Studies

J. McKeon (Philosophy), *Advisor*;
F. Best (Philosophy), G. Gigliotti (English),
A. Adams (Anthropology), N. Mezvinsky
(History) (Phone 832-2915)

Minor in Religious Studies

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

1. Comparative Religion (REL 110);
2. Religious Texts (ENG 360, ENG 361);
3. Historical/Social Science (HIST 377, 378, 435, 436, 441, 469, 473; ANTH 440);
4. Philosophical/Religious Thought (PHIL 232, 250, 255, 275, 376, 492; REL 105, 250, 256, 257, 361, 492).

Urban Studies

R. White, *Coordinator* (832-3137);
C. Barrata, C. Carter-Lowery, A. Moran,
E. Phillips, C. Pope, M. Triebwasser,
A. Zottola

Urban Studies is an interdisciplinary field that combines theory and practice in addressing the major questions and issues of life in the city. Urban Studies explores the factors that shape the growth and development of cities as well as the city's role as an arena for human activities.

The Urban Studies minor provides students with the academic foundation necessary to understand the issues and problems confronting our urban areas. Beyond building understanding, the minor also gives students the tools necessary to engage in solutions to those problems.

Minor in Urban Studies

18 credits as follows: URS 300 and 15 credits from ANTH 300, 323, ECON 420, GEOG 439, 441, PS 230, 432, SOC 232, 332, URS 420, 430. Courses must be taken from at least three different departments.

Women's Studies

C. Pope, R. White, *Co-coordinators* (832-2616, 832-2742); *Advisory Committee*:
E. Aaronsohn, A. E. Adams, J. DiPlacido,
C. Doyle, M. A. Ertel, S. Gilmore,
E. Godway, J. Greenbaum, J. Higgins,
P. LaPuerta, K. Larsen, L. Levine, M. Levvis,
P. Lisi, M. Mentzer, A. Morales, A. Moran,
L. Perdue, H. M. Prescott, K. Ritzenhoff,
C. Shmurak, D. Stanley, G. Sunshine,
L. Uribe, J. Weinberger, C. L. White,
R. Wolff

Minor in Women's Studies

18 credits with at least nine credits on the 300-400 level, including WS 200, and 15 credits from *Theoretical* (PHIL 100*, 222, 382* WS 400), *Historical* (ESCI 218, HIST 330, 331, 335), *Cultural* (ANTH 350, ART 409*, COMM 435, ENG 215, 288*, 448*, 458*, 488*, HUM 250*), *Social* (COMM 495*, PS 241, PSY 448, 498*, SOC 240). At least one course (three credits) must be taken from three of the four areas listed.

Note: Students whose needs are not met by available courses may take up to three credits of independent studies, pending approval of the appropriate department chair and the Women's Studies coordinator.

*Under section or topic as approved by the Women's Studies Advisory Committee

Special Studies Major

With the help of an academic advisor, an undergraduate student may design a major to fit his or her own interests and needs. A Special Studies major must consist of 36–42 credits if a conventional minor is taken, or 54–60 credits if no minor 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 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 a minimum of 122 credits.

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 advisor,

chairs of departments from which there are three or more courses in the major and the dean of the school of the advisor.

Applications normally should be filed prior to the completion of 60 credits. 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. Information about Special Studies programs in all four schools is available in the office of the Dean of Arts and Sciences.

Intensive English Language Program

The Intensive English Language Program (IELP) offers full-time and part-time English language and American culture instruction to international students and faculty, foreign professionals, and members of the Connecticut community.

The IELP is dedicated to ensuring that students have a positive experience. Each session's courses are tailored to meet the needs of the students enrolled at that time. Its classes are small, so teachers get to know and offer support and encouragement to each student individually. Instructors holding professional degrees provide cutting-edge multimedia technology as a means to strengthen the classroom learning experience. Activities arranged by the IELP offer students the opportunity to meet and interact with American students and local culture.

Living in another country is an exciting adventure and a challenge. The members of the IELP understand this and are here to help in every way possible. The IELP and the George R. Muirhead Center for International Education staff are always available to answer questions about visas, adjusting to American culture, academic planning and other issues.

For more information, please contact the IELP in Barnard Hall, Room 138, at 860-832-3376 or IELP@ccsu.edu.

Honors Program

The Honors Program provides an interdisciplinary, team-taught 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. Applicants must satisfy writing and interview requirements. A limited number of full or half merit scholarships are available; for more information on scholarships, please refer to the Financial Aid section of this catalog.

The Honors Program is divided into four general areas: Western Culture, Science and Society, World Cultures and the Writing and Research component. All Honors Program courses satisfy general education requirements, with modal and area restrictions where noted. Honors students are required to complete the following 36 credits of courses, which are offered over a three year period and are available only to Honors Program students.

Western Culture

- HON 110 Western Culture I
- HON 210 Western Culture II: Topics in Western Culture
- HON 250 Western/World Culture III: Comparative Topics

Science and Society

- HON 120 Science and Society I
- HON 220 Science and Society II: Social Sciences and Society

World Cultures

- HON 130 World Cultures I
- HON 230 World Cultures II: Topics in World Cultures

Writing and Research

- HON 140 Writing and Research I
- HON 440 Writing and Research II
- HON 441 Writing and Research III
- HON 442 Writing and Research IV: Thesis Workshop

Successful completion of the entire Honors curriculum satisfies all the student's general education requirements, with the exception of Skill Areas II, III, IV, lab science requirement and any course requirements set by individual major programs or certifications.

Honors Program students may choose to graduate without a minor. Students who complete the Honors Program with a grade-point average of 3.20 or higher for their honors courses and for all their university courses will receive the designation "Honors Program Scholar" on their diploma. Inquiries should be addressed to Dr. Kristine Larsen, director of the Honors Program, Department of Physics and Earth Sciences, Copernicus Hall, telephone 832-2938 or e-mail Larsen@ccsu.edu. Further information on the program is available at its Web site: <http://www.ccsu.edu/honors>.

Pre-Professional Programs

Pre-Law

Students intending to apply to law school should consult with one of the pre-law advisors early in their academic careers, and no later than the junior year.

Since law schools do not prescribe a particular academic program, students considering a career in law may select any undergraduate major. Information regarding academic planning and requirements for application to law school is available from the following pre-law advisors: Antonia Moran, Associate Professor of Political Science, and Francis Keefe, Director, Advising Center.

Pre-Health/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 consists of faculty members from the School of Arts and Sciences.

Students interested in pre-health Professional Programs should consult Professor Peter Osei, Program Coordinator for the health professions, Department of Biological Sciences, Copernicus Hall 339 (832-2657). Additional information is available at <http://www.prehealth.ccsu.edu>.

Cooperative Programs

Also see School of Technology and School of Arts and Sciences sections.

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 their academic dean for further information.

Hartford Consortium for Higher Education

This program, sponsored by the Hartford Consortium for Higher Education, allows undergraduate students at CCSU to cross-register for courses at other local campuses for selected courses in language, religious studies, urban studies, and women's studies. Courses are available at Capital Community College, Hartford Seminary, Saint Joseph College, Trinity College, University of Connecticut-Hartford, Saint Thomas Seminary, and University of Hartford.

To be eligible, a student must be a full-time undergraduate at a participating institution. No tuition or registration fee is paid by the student to the host school. Transportation, books, and lab fees are the responsibility of the student.

Students may obtain a brochure and cross-registration forms at the CCSU Registrar's Office. For more information, visit the consortium web site at www.hartnet.org/hche.

OnlineCSU

OnlineCSU is the virtual classroom of the Connecticut State University System (CSU) — Central, Eastern, Southern and Western. CSU strives to meet the academic and support needs of our learners. Responding to the emerging trends of learning-on-demand, CSU designed *OnlineCSU* to ensure that the education it has traditionally made available in the

classroom can now be offered without regard to time, distance or circumstance.

Online learning, also known as distance education, takes place using computer technology and the Internet when the faculty and students are separated by distance, i.e., not in the same room. Within semester limits, *OnlineCSU* offers asynchronous learning, which means the instructor and the students need not be in the same room at the same time or on the computer at the same time. This means students may sign on any time, 24 hours a day, seven days a week. Except where the faculty have set test dates, chat room sessions, etc., students do not need to sign on at the same time as other students or at the same time as the instructor.

OnlineCSU offers both graduate and undergraduate courses, and new courses are added every semester. CSU faculty, who design and teach the courses, are at the core of this distinctive learner-centered program. CSU campuses are fully accredited, and courses offered through *OnlineCSU* are approved for credit by the university offering the course. Credits earned online are eligible for credit towards a degree.

Full-time and part-time matriculated students (students who have formally applied and been admitted to a CSU university) who already have a faculty advisor should continue to consult with that advisor regarding online courses. Non-matriculated students do not need a faculty advisor to register for an online course.

For information on *OnlineCSU* courses, stop by the *OnlineCSU* site at www.OnlineCSU.net.

Reserve Officers Training Corps (ROTC)

Army and Air Force ROTC programs are offered to Central Connecticut State University students at the University of Connecticut's main campus at Storrs.

Air Force ROTC. Without paying extra tuition, Central Connecticut State University students may pursue commissions in the Active, Reserve, or Guard forces of the Air Force. The 100- and 200-level courses carry no military obligation and are open to all students. The 200-level courses require prerequisites and permission of the appropriate instructor.

Scholarships are available and pay up to annual full tuition and fees, plus tax-free stipends of \$250 to \$400 per month, and \$520 per year toward books.

Interested students should contact the Air Force ROTC office at 860/486-2224 or visit the Web site at www.airforce.uconn.edu.

Army ROTC. Central Connecticut State University students may pursue commissions in the Active, Reserve, or Guard forces of the Army. The 100-level courses carry no military obligation and are open to all students. The 200-level courses require prerequisites and permission of the appropriate department head.

Army scholarships are available which pay full tuition up to \$17,000 a year. Plus monthly tax-free stipends—\$250 as a freshman, \$300 as sophomore, \$350 as junior, and \$400 as a senior—and \$600 annually toward books.

Students in the Connecticut Army National Guard may contract into the Simultaneous Membership Program in their junior year. Army National Guardsmen receive approximately \$1,200 monthly, plus free tuition, while they continue as full-time students. They may elect to enter Active Duty or stay in the National Guard upon graduation. Openings are available for Airborne and Air Assault School. USAR students will receive tuition assistance and \$1,200 a month.

Interested students should contact the Army ROTC office at 860/486-6081 or visit the Web site at www.armyrotc.uconn.edu.

AIR FORCE AEROSPACE STUDIES

Aerospace Studies I. Both semesters. One credit each semester. One one-hour class period and one two-hour leadership laboratory period.

A survey course designed to introduce students to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, group leadership problems and an introduction to communication skills.

Aerospace Studies II. Both semesters. One credit each semester. One one-hour class period and one two-hour leadership laboratory period.

A survey course designed to facilitate the transition from Air Force ROTC cadet to Air Force ROTC officer candidate. Featured topics include: Air Force history from the early 20th Century through today, Air Force leaders, group leadership problems and continuing application of communication skills.

Aerospace Studies III. Both semesters. Three credits each semester. Three-hour class period and one two-hour leadership laboratory period. Prerequisite: Air Force Aerospace Studies I and II, or six weeks field training and consent of Professor of Aerospace Studies.

A study of leadership and quality management fundamentals, professional knowledge, leadership ethics and communication skills required of an Air Force officer. Case studies are used to examine Air

Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied.

Aerospace Studies IV. Both semesters. Three credits each semester. Three-hour class period and one two-hour leadership laboratory period. Prerequisite: Air Force Aerospace Studies III.

Examines the national security process, regional studies, advanced leadership ethics and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty and current issues affecting military professionalism. Within this structure, continued emphasis is given to the refinement of communication skills.

AVIATION GROUND SCHOOL

AFR 201. Aviation Ground School. Three-hour class offered each semester.

Designed for private pilot applicants and students interested in acquiring an understanding of the principle of flight. Provides the necessary aeronautical knowledge for students preparing for the Federal Aviation Administration written test for private pilot certification. Meets the requirements for pilot applicants who must present evidence showing completion of a course of study (required by Federal Aviation regulations). One three-hour class period per week for twelve weeks.

MILITARY SCIENCE

MISI 131. General Military Science I-A. One credit. One class period.

This introductory course focuses on the organization of the Army, values and ethical decision making, leadership doctrine and communication. There are also opportunities for experience in land navigation, physical fitness, field training exercises, and drill and ceremony. *No military obligation.*

MISI 132. General Military Science I-B. One credit. One class period.

This introductory course focuses on the leadership development program, squad tactics, writing in the Army style, land navigation, after-action reviews, and the duties of officers, warrant officers and NCOs. Students may also participate in land navigation labs, physical fitness training, field training exercises, and drill and ceremony. *No military obligation.*

MISI 145. General Military Science II-A. One credit. One class period.

This intermediate-level course focuses on operations orders, squad movement techniques, leadership doctrine, officer and NCO duties, risk assessment, and training the individual and the team. There are opportunities to participate in land navigation labs, physical fitness training, field training exercises, and drill and ceremony. *No military obligation.*

MISI 146. General Military Science II-B. One credit. One class period.

This intermediate-level course focuses on counseling and motivation techniques, leadership doctrine, squad tactics, resolving ethical dilemmas, land navigation, military customs and traditions, and briefing on military history. There are also opportunities for experience in land navigation, physical fitness, field training exercises, and drill and ceremony. *No military obligation.*

MISI 252. General Military Science III-A. Three credits. One three-hour class period, physical training sessions and leadership laboratory. One weekend field training exercise.

Leadership principles, techniques and the responsibilities of command. Military instruction techniques. Includes student class presentations. *In all cases, permission of the Professor of Military Science is required.*

MISI 253. General Military Science III-B. Three credits. One three-hour class period, physical training sessions and leadership laboratory. One weekend field training exercise.

Dynamics of small unit tactics and branches of the Army. *In all cases, permission of the Professor of Military Science is required.*

MISI 297. General Military Science IV-A. Three credits. One three-hour class period, physical training sessions and leadership laboratory. One weekend field training exercise.

Army staff organization, unit administration and management, logistics, military intelligence, leadership seminar, the international system and strategic doctrine. *In all cases, permission of the Professor of Military Science is required.*

MISI 298. General Military Science IV-B. Three credits. One three-hour class period, physical training sessions and leadership laboratory. One weekend field training exercise.

Military law, obligations and responsibilities of an officer, contemporary human problems and a staff ride. *In all cases, permission of the Professor of Military Science is required.*

a competitive basis. With proper planning, all course work earned overseas will apply toward graduation requirements.

To plan a study abroad program, contact the Study Abroad Coordinator in the George R. Muirhead Center for International Education, Barnard Hall, Room 138 (832-2043). April 1 is the program application and scholarship deadline for all programs taking place in the upcoming academic year. Specific program information and the dates of regularly scheduled information sessions can also be found on the CIE Web site <http://www.ccsu.edu/cie>.

Students may also take an individual course taught abroad by a CCSU professor during the Winter or Summer Sessions. Students may choose from a dozen courses offered each year by faculty in a variety of disciplines and countries. Foreign language proficiency is generally not required. Registration for courses taught abroad in Summer or Winter Session takes place at the Enrollment Center/Office of Continuing Education, Willard Hall. Students must also declare their participation with the George R. Muirhead Center for International Education.

Study Abroad Programs

Central Connecticut State University can place students to study for CCSU credit almost anywhere in the world through a variety of study abroad programs. International experiences may range from two weeks to one year in duration. CCSU offers two distinct types of programs — semester or academic year study abroad programs and courses abroad taught by our own faculty.

The study abroad immersion programs allow CCSU students to enroll to study at one of our international partner universities, often on an exchange basis. Exchange programs are arranged so students may pre-pay normal tuition, and in some cases housing costs, to CCSU while exchanging places with an international student. Full semester or academic year study abroad programs are currently available in the United Kingdom, Spain, France, Germany, Poland, Sweden, Ghana, Puerto Rico, Jamaica, Barbados, Japan, China, Korea, and the Turkish Republic of Northern Cyprus. Financial aid applies to all CCSU programs and scholarships are also offered on

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. Additional work will be required for graduate credit.
- 500–599 Graduate courses; undergraduate students who have a cumulative average (GPA) of 3.00 or above and who have completed more than 90 semester hours of coursework may request permission to enroll in a 500-level course for which they have met all course prerequisites. Students are required to obtain written permission from their advisor, the course instructor, the chair of the department offering the course, and the Dean of Graduate Studies prior to registration. Forms are available in the Graduate Office, Barnard Hall, Room 102, and also at www.ccsu.edu/grad.
- 600–699 Open to master's and sixth-year candidates.
- 700–799 Graduate courses open only to doctoral students

Note for graduate students: Only 400-level courses listed in the Graduate Catalog, unless otherwise noted, may be taken for graduate credit and be included in the student's planned program of study, when approved by the program advisor. Additional work will be required for graduate credit in 400-level courses.

When Courses Are Available

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 1999–2000, that fall or the next spring. One marked (E), even year, would be available in an even-starting academic year, such as 2002–2003, that fall or the next spring. **If unspecified, the course is offered both semesters.**

Computer Usage

Courses with the letter [c] may have **computer use activity** in some or all sections and may require a CCSU computer account.

International Courses

Courses with the letter [I] have been designated as fulfilling the **international component** of the General Education requirements. See page 41.

Literature Requirement for Study Area I

Courses with the letter [L] have been designated as fulfilling the **literature component** of the General Education literature requirements. See page 40.

General Education: Courses Under the Study and Skill Areas

The General Education program embraces four Study Areas and four Skill Areas. First-year students starting in Fall 1998 and all students entering in Fall 1999 or later are subject to the following program. Credit requirements for each area are listed on page 40. Students entering prior to Fall 1999 should refer to page 97 for the previous General Education program.

The Study Areas are:

- I. Arts and Humanities
- II. Social Sciences
- III. Behavioral Sciences
- IV. Natural Sciences

The Skill Areas are:

- I. Communication Skills
- II. Mathematics
- III. Foreign Language Proficiency
- IV. University Requirement

STUDY AREA I

- ART 100 Search in Art
- ART 110 Introduction to Art History
- ART 112 History of Western Art I
- ART 113 History of Western Art II

- ART 120 Design I
- ART 124 Three-Dimensional Design
- ART 130 Drawing I
- ART 224 Illustration I
- ART 230 Drawing II
- ART 240 Printmaking I
- ART 247 Photography I
- ART 250 Watercolor Painting
- ART 252 Painting I
- ART 260 Ceramics I
- ART 261 Sculpture I
- ART 264 Design—Handicraft Materials and Techniques I
- DES 126 Introduction to Graphic/Information Design
- ENG 203 World Literature I [I] [L]
- ENG 204 World Literature II [I] [L]
- ENG 205 British Literature I [I] [L]
- ENG 206 British Literature II [I] [L]
- ENG 210 American Literature I [L]
- ENG 211 American Literature II [L]
- ENG 212 African-American Literature [L]
- ENG 215 Introduction to Women Writers [I] [L]
- ENG 220 Shakespeare [I] [L]
- ENG 250 Contemporary Literature [L]
- ENG 260 Introduction to Poetry [L]
- ENG 261 Introduction to Fiction [L]
- ENG 262 Introduction to Drama [I] [L]
- ENG 288 Studies in Literature [L]
- FR 302 Masterpieces of French Literature [I] [L]
- GER 305 Literary Masterpieces Since 1800 [I] [L]
- GER 360 Literary Masterpieces to 1800 [I] [L]
- HON 110 Western Culture I
- HON 210 Western Culture II: Topics in Western Culture
- HON 440 Writing and Research II
- HUM 100 Search in the Humanities
- HUM 250 Topics in European Literature [I] [L]
- ITAL 304 Literary Masterpieces to 1700 [I] [L]
- ITAL 305 Literary Masterpieces Since 1700 [I] [L]
- MUS 109 Fundamentals of Music
- MUS 110 Listening to Classical Music [I]
- MUS 111 Music of the World's People [I]
- MUS 112 Computer Applications to Music
- MUS 113 History of Jazz
- PHIL 100 Search in Philosophy
- PHIL 112 Introduction to Philosophy
- PHIL 121 Introduction to Philosophy Through Literature
- PHIL 135 Nature, Mind, and Science
- PHIL 144 Moral Issues
- PHIL 235 Philosophy of Social Science
- PHIL 248 Philosophy of the Arts
- PHIL 250 Introduction to Asian Philosophy [I]
- PHIL 255 Philosophy of Religion
- PHIL 260 African Philosophy [I]
- PHIL 275 Chinese Philosophy [I]
- PHIL 366 Existentialism [I]
- PS 232 Ancient and Medieval Political Thought
- REL 105 Development of Christian Thought
- REL 110 World Religions [I]
- REL 250 Japanese Religion [I]
- REL 256 Philosophy, Religion, and Culture [I]
- SPAN 304 Literary Masterpieces to 1700 [I] [L]
- SPAN 305 Literary Masterpieces Since 1700 [I] [L]
- SPAN 375 Spanish American Literature I [I] [L]
- SPAN 376 Spanish American Literature II [I] [L]

TH 110 Introduction to Theatre
 TH 111 Stagecraft
 TH 117 Lighting
 TH 121 Costuming
 TH 126 Makeup I
 TH 135 Speaking-Voice Development
 TH 143 Theatre, Games and Improvisations
 TH 145 Acting I
 TH 222 History of Fashion [I]
 TH 246 Acting II
 TH 253 Script Analysis for the Theatre
 TH 275 American Theatre Today

STUDY AREA II

AFAM 110 Introduction to African-American Studies [I]
 CHIN 341 The Chinese Heritage I [I]
 CHIN 342 The Chinese Heritage II [I]
 CRM 110 Introduction to the Criminal Justice System
 ECON 200 Principles of Economics I
 ECON 201 Principles of Economics II
 ECON 250 Contemporary Economic Issues
 FR 315 Aspects of French History and Culture [I]
 FR 316 Contemporary France [I]
 GEOG 100 Search in Geography
 GEOG 110 Introduction to Geography
 GEOG 120 World Regional Geography [I]
 GEOG 220 Human Geography [I]
 GEOG 223 Geography of Popular Music Industry
 GEOG 241 Introduction to Planning
 GEOG 244 Economic Geography [I]
 GEOG 270 Geography of Hazards
 GEOG 290 Geography of Tourism [I]
 GEOG 291 National Parks and World Heritage Sites [I]
 GER 315 German Civilization to 1800 [I]
 GER 316 German Civilization from 1800 to Present [I]
 HIST 100 Search in History
 HIST 121 World Civilization I [I]
 HIST 122 World Civilization II [I]
 HIST 142 Western Civilization I [I]
 HIST 143 Western Civilization II [I]
 HIST 231 Ancient Civilization [I]
 HIST 232 Medieval Civilization [I]
 HIST 261 History of American Life I
 HIST 262 History of American Life II
 HIST 351 East Asia to 1800 [I]
 HIST 352 East Asia Since 1800 [I]
 HIST 375 History of Africa to 1800 [I]
 HIST 376 History of Africa Since 1800 [I]
 HON 130 World Cultures I [I]
 HON 230 World Cultures II: Topics in World Cultures [I]
 HON 442 Writing and Research IV: Thesis Workshop
 IS 225 The World as a Total System [I]
 IS 240 Caribbean Cultural Patterns [I]
 IS 245 Puerto Rico [I]
 IMS 110 Introduction to Cyberspace
 ITAL 315 Italian Civilization to 1861 [I]
 ITAL 316 Italian Civilization from 1861 to the Present [I]
 PES 110 Introduction to the Study of Peace and War
 PS 104 The World's Political Systems [I]
 PS 110 American Government and Politics
 PS 230 American State and Local Government
 PS 235 International Relations [I]
 PS 260 Public Administration

PS 315 Internet and Media Politics
 PS 334 Modern Political Thought
 SPAN 315 Spanish Civilization [I]
 SPAN 316 Latin American Civilization [I]
 TE 110 Technological Systems

STUDY AREA III

ANTH 140 Introduction to Anthropology
 ANTH 150 Introduction to Archeology
 ANTH 160 Introduction to Biological Anthropology
 ANTH 170 Introduction to Cultural Anthropology [I]
 ANTH 200 Dimensions of Diversity and Inequality
 ANTH 210 The Ancient World
 ANTH 215 Before History
 COMM 215 Intro. to Interpersonal Communication
 COMM 230 Introduction to Mass Media
 COMM 295 Communication and Elements of Human Relations
 CRM 133 Law Enforcement and Society
 CRM 220 Ideology & Violence
 CRM 245 Diversity and Criminal Justice
 HON 220 Science and Society II: Social Sciences and Society
 HON 250 Western/World Culture III: Comparative Topics [I]
 IS 226 Intercultural Sensitivity [I]
 LING 200 Introduction to Linguistics
 LING 230 The Study of Language
 PSY 112 General Psychology I
 PSY 125 Environment & Behavior
 PSY 200 Learning & Memory
 PSY 236 Life-Span Development
 PSY 241 Introduction to Health Psychology
 PSY 281 Cognitive Psychology
 SOC 110 Introductory Sociology
 SOC 111 Social Problems
 SOC 212 Race, Class, and Gender
 SOC 233 The Family
 SOC 240 The Sociology of Gender
 URS 300 Introduction to Urban Studies
 WS 200 Introduction to Women's Studies

STUDY AREA IV

ANTH 265 Human Evolution
 BIO 100 Search in Biology
 BIO 101 Search in Biology with Lab
 BIO 111 Introductory Biology
 BIO 113 Laboratory Experience in Biology
 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 Long Island Sound — Introductory Ecology
 BIO 211 Concepts in Biology
 CHEM 102 Chemistry of Nutrition
 CHEM 111 Introductory Chemistry
 CHEM 116 Introduction to Forensic Chemistry
 CHEM 120 General Chemistry I Coordinated with Intermediate Algebra
 CHEM 121 General Chemistry I
 CHEM 122 General Chemistry II
 ESCI 110 Introduction to the Earth
 ESCI 111 Elementary Earth Science
 ESCI 117 Introduction to the Solar System
 ESCI 118 Intro. 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
 GEOG 272 Physical Geography
 GEOG 275 Soils and Vegetation
 HON 120 Science and Society I
 ISCI 104 Science Connections
 ISM 211 Biological and Physical Sciences Integrated with Mathematics
 PHYS 111 Introductory Physics I
 PHYS 113 The Sound of Music
 PHYS 121 General Physics I
 PHYS 122 General Physics II
 PHYS 125 University Physics I
 PHYS 126 University Physics II
 SCI 117 Physical Science

SKILL AREA I

COMM 115 Fundamentals of Communication
 COMM 140 Public Speaking
 COMM 280 Business and Professional Speaking
 ENG 110 Freshman Composition
 ENG 202 Intermediate Composition
 ENG 235 Journalism I
 ENG 236 Journalism II
 ESL 108 English as a Second Language: Writing I
 ESL 109 English as a Second Language: Writing II
 ESL 201 Advanced Study in English as a Second Language
 HON 140 Writing & Research I
 HON 441 Writing and Research III
 PHIL 220 Introduction to Logic

SKILL AREA II

BIO 223 Information Technology Skills for the Biosciences
 CS 110 Introduction to Internet Programming and Applications
 CS 113 Introduction to Computers
 CS 151 Computer Science I
 CS 207 Introduction to Computer Graphics
 CS 213 Applications of Computer Programming
 ISM 213 Math Integrated with Biological and Physical Sciences
 MATH 105 Fundamentals of Mathematics
 MATH 110 Finite Mathematics
 MATH 113 Structure of Mathematics I: Number Systems
 MATH 115 Trigonometry
 MATH 119 Pre-Calculus with Trigonometry
 MATH 121 Pre-Calculus Mathematics
 MATH 123 Applied Business Mathematics
 MATH 124 Applied Calculus with Trigonometry
 MATH 125 Applied Calculus
 MATH 135 Applied Engineering Calculus I
 MATH 136 Applied Engineering Calculus II
 MATH 152 Calculus I
 MATH 213 Structure of Mathematics II: Probability & Geometry
 MATH 221 Calculus II
 STAT 104 Elementary Statistics
 STAT 108 Introduction to Biostatistics
 STAT 200 Business Statistics
 STAT 215 Statistics for Behavioral Sciences I
 STAT 216 Statistics for Behavioral Sciences II

SKILL AREA III

- CHIN 111 Elementary Chinese I
 CHIN 112 Elementary Chinese II [I]
 CHIN 125 Intermediate Chinese I [I]
 CHIN 126 Intermediate Chinese II [I]
 FR 111 Elementary French I
 FR 112 Elementary French II [I]
 FR 125 Intermediate French I [I]
 FR 126 Intermediate French II [I]
 FR 151 French for Reading Knowledge [I]
 FR 225 Essential Skills in French I [I]
 FR 226 Essential Skills in French II [I]
 FR 261 Business French I [I]
 GER 111 Elementary German I
 GER 112 Elementary German II [I]
 GER 125 Intermediate German I [I]
 GER 126 Intermediate German II [I]
 GER 225 German Composition & Diction [I]
 GER 226 German Structure and Idiom [I]
 ITAL 111 Elementary Italian I
 ITAL 112 Elementary Italian II [I]
 ITAL 118 Intensive Elementary Italian [I, 3
 credits only]
 ITAL 125 Intermediate Italian I [I]
 ITAL 126 Intermediate Italian II [I]
 ITAL 190 Italian for Italian Speakers [I]
 ITAL 225 Italian Composition and Diction [I]
 ITAL 226 Italian Structure and Idiom [I]
 ITAL 260 Introduction to Business Italian [I]
 JAPN 111 Elementary Japanese 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
 LING 200 Introduction to Linguistics
 LING 230 The Study of Language
 POL 111 Elementary Polish I
 POL 112 Elementary Polish II [I]
 POL 125 Intermediate Polish I [I]
 POL 126 Intermediate Polish II [I]
 SPAN 111 Elementary Spanish I
 SPAN 112 Elementary Spanish II [I]
 SPAN 118 Intensive Elementary Spanish [I, 3
 credits only]
 SPAN 123 Basic Spanish Review [I]
 SPAN 125 Intermediate Spanish I [I]
 SPAN 126 Intermediate Spanish II [I]
 SPAN 128 Intensive Intermediate Spanish I [I]
 SPAN 190 Spanish for Spanish Speakers I [I]
 SPAN 191 Spanish for Spanish Speakers II [I]
 SPAN 225 Intermediate Spanish III [I]
 SPAN 226 Intermediate Spanish IV [I]
 SPAN 261 Business Spanish [I]
 SPAN 290 Spanish for Spanish Speakers III [I]
 SPAN 291 Spanish for Spanish Speakers IV [I]

SKILL AREA IV

- CET 113 Introduction to Information
 Processing
 CS 115 Workshop in Computer Science
 CS 210 Computing and Culture
 GRT 112 Digital Imaging for Graphics Technology
 GRT 212 Graphic Arts Processes
 IMS 210 Multimedia Computing
 LSC 150 Library Resources and Skills
 PE 244 Fitness/Wellness Ventures
 RDG 140 Reading Efficiency
 STAT 217 Elementary Survey Sampling

General Education: Courses**Under the Modes**

First-year students starting before Fall 1998 and all other students entering prior to Fall 1999 are subject to the eight Modes of Thought and four Areas General Education program. These students should consult prior catalogs.

COURSE DESCRIPTIONS

Note: Symbols referring to course cycling information are: (O) = odd year, (E) = even year, no symbol = course offered both semesters of the academic year, [c] = computer-intensive course. AMS = American Studies, AS = Area Studies, URS = Urban Studies, WS = Women's Studies. See page 95.

ACCOUNTING

Note: Enrollment in 300- and 400-level Business courses requires admission to the School of Business or permission of the Assistant 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 (C- or higher). 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. [c]
- AC 212 Introduction to Managerial Accounting 3
Prereq.: AC 211, MIS 201 (with grades of C- or higher). 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 303 (Managerial Accounting).
- AC 300 Accounting Concepts and Processes 3
Prereq.: FIN 295 and AC 212 (with grades of C- or higher). Develop understanding of accounting profession and role in society. Review of the accounting cycle and analysis of enterprise economic resources and obligations, including methods of measurement and recognition. The foundations for accounting include discussion of: the FASB Conceptual Framework and pronouncements of authoritative standard-setting agencies; accounting systems and controls; problem solving, decision making and teamwork skills; relationship of financial accounting, management accounting and taxation.
- AC 301 Cost Management Systems 3
Prereq.: AC 300 (may be taken concurrently), and STAT 200 (with grades of C- or higher). Development of principles of cost management systems. Emphasis on job-order, process, activity-based, operations, just-in-time and standard costing procedures. Focus on accounting system choices and the implications of cost information for managing and reporting costs.
- AC 311 Accounting Applications 3
Prereq.: AC 212 (C- or higher). Current financial reporting processes, issues and applications are studied. Emphasis on bookkeeping processes and technology. Irregular.
- AC 312 Financial Reporting I 3
Prereq.: AC 300 (C- or higher). Financial accounting with special emphasis on measurement and recognition issues pertaining to noncurrent assets, long-term liabilities, contributed capital, and retained earnings.
- AC 313 Financial Reporting II 3
Prereq.: AC 312 (C- or higher). Designed to further prepare students for professional competency. Topics include accounting for taxes, post employment benefits, leases, cash flows, changes and errors, revenue recognition, and disclosure.
- AC 340 Accounting Information Systems 3
Prereq.: AC 301, AC 312 (with grades of C- or higher). The role of accounting in the analysis, design, and implementation of effective information systems is stressed. Methods of collecting accounting data and communicating these data to aid management's planning and control functions are examined. Developing internal controls for organizational systems is emphasized. [c]
- AC 401 Introduction to Income Taxation 3
Prereq.: LAW 250 and AC 340 or FIN 301 (with grades of C- or higher). Analysis of the basic framework utilized in measuring and reporting taxable income of individuals and business entities including gross income, deductions, tax rates, credits, timing issues and procedural matters.
- AC 402 Fundamentals of Corporate Taxation 3
Prereq.: AC 401 (C- or higher); for graduate students, permission of chair. Analysis of federal tax law relating to the formation, operation, and liquidations of corporations including dividend distributions and stock redemptions.
- AC 403 Estate Taxation and Probate Accounting 3
Prereq.: AC 401 (C- or higher). 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. Fall.
- AC 404 Taxation of Business Pass-Through Entities 3
Prereq.: AC 401 (C- or higher); for graduate students, permission of chair. Analysis of federal tax law relating to (1) the formation, operation, and liquidation of partnerships and LLCs including current distributions; and (2) the election, operation, and termination of Subchapter S corporations. Spring
- AC 407 Advanced Accounting 3
Prereq.: AC 313 (C- or higher). Partnership accounting, consignments and installation sales, parent and subsidiary accounting, consolidations and mergers, agencies, and branches.
- AC 420 Managerial Analysis and Cost Control 3
Prereq.: AC 340 (C- or higher). Advanced topics in managerial and cost accounting. Emphasis on the analysis of accounting information for management decision making and cost control. Cases and problems.
- AC 430 Accounting for Non-Profit Institutions 3
Formerly AC 330. Prereq.: AC 313 (C- or higher); graduate students require permission of department chair. 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 445 Auditing 3
Prereq.: AC 313, AC 340, STAT 201 with grades of C- or higher; graduate students require permission of department chair. 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 313, AC 340, STAT 201 with grades of C- or higher; graduate students require permission of department chair. Role and responsibilities of internal auditors in financial auditing. Understanding the need and role of governmental auditing. Topics include operational audits, compliance audits, performance audits.
- AC 490 Current Accounting Topics 3
Prereq.: Permission of instructor; for graduate students, permission of chair. Seminar course that will focus on current topics in financial accounting, tax, managerial accounting, accounting systems. Course content will vary from semester to semester. May be repeated with different topics for a maximum of 6 credits. Irregular.
- AC 497 Independent Study in Accounting 3
Prereq.: Senior standing and permission of instructor. Research-oriented project in a special area of accounting. On demand.

ACTUARIAL SCIENCE

ACTL 335 Theory of Interest 3
Prereq.: MATH 152. 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. Fall. (E)

ACTL 465 Actuarial Models I 4
Prereq.: STAT 315. Life contingency topics including survival models and life tables, net premium and reserve calculation including an introduction to multiple life and multiple decrement models. Students will not receive credit for both ACTL 465 and ACTL 565. Fall. (O)

ACTL 466 Actuarial Models II 4
Prereq.: STAT 315. Topics related to risk theory including frequency and severity of losses, approaches to calculation of the aggregate loss distribution, and estimation of the probability of ruin. Students will not receive credit for both ACTL 466 and ACTL 566. Spring. (O)

ACTL 480 Topics in Actuarial Science 1 to 3
Prereq.: Permission of instructor. Topics chosen from theory of interest, risk theory, demography, and graduation. Spring. (E)

ACTL 481 Review-SOA/CAS Course I 3
Review and extension of the principles of calculus and probability as related to the material on the SOA/CAS Course 1 exam. Spring.

ACTL 482 Review-SOA/CAS Course II 3
Prereq.: ACTL 335 and permission of instructor. Review and extension of the principles of theory of interest, economics, and finance as related to the material on the SOA/CAS Course 2 exam. Spring. (O)

AFRICAN-AMERICAN STUDIES

AFAM 110 Introduction to African-American Studies 3
Interdisciplinary survey of African-American experience from pre-colonial Africa to today, focusing on key figures and on discussion of a wide range of contemporary issues. Fall. Study Area II [I]

AMERICAN STUDIES

AMS 490 Internship in American Studies 3
Prereq.: Permission of faculty advisor. Supervised work in appropriate institutions requiring application of interdisciplinary principles related to American Studies. Series of consultations and a final project and analyzing procedures and conclusions are required. On demand.

ANTHROPOLOGY

ANTH 140 Introduction to Anthropology 3
Major fields of anthropology, prehistory, 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. Study Area III

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. Study Area III

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.

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. Study Area III

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. Study Area III [I]

ANTH 200 Dimensions of Diversity and Inequality 3
Cross-cultural examination of human diversity, focusing on class, race, gender, and ethnicity. Consideration of the ways that cultural differences figure in the development of social, political, and economic inequality. Study Area III

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. Fall. Study Area III

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. Spring. Study Area III

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. Fall. Study Area IV

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. (O) URS

ANTH 316 Archaeology of Africa 3
Examines pre-historic and historic period of Africa via archaeological, documentary, and oral historical data. Spring. (O)

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. Spring. (E)

ANTH 320 African Diaspora Archaeology 3
Previously ANTH 220. Examination of early African diaspora life via analysis of archaeological remains. Consideration of issues such as diversity of populations, health and diet, and labor conditions. Spring.

ANTH 322 Historical Archaeology 3
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. Fall. (O)

ANTH 323 Urban Archaeology 3
Cross-cultural examination of the archeology of urban life. Views the nature of urban centers and populations of the past and their relation to the social systems in which cities are located. Irregular. URS

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 prehistory and early history of the world's first complex civilizations. Irregular.

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. Spring.

- 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. Fall.
- 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 European contact in the sixteenth and seventeenth centuries A.D. Fall. (O)
- 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. Spring. (E)
- 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. Fall. (O)
- ANTH 350 Men and Women 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. WS
- ANTH 352 Ethnicity and Ethnic Identity** 3
 This course can be taken for the American Studies program. Examination of the processes by which ethnic groups and identities are created, maintained, or modified. Comparison of ethnic sub-cultures focusing on Connecticut groups. Spring. (E) AMS
- 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. Spring.
- 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.
- ANTH 374 Field Research Methods** 3
 Examines field research methods with focus on qualitative techniques such as participant-observation, applied and action research, and ethnographic interviewing. Quantitative techniques include time budget analysis and single subject design. Spring.
- ANTH 375 Anthropological Data Analysis** 3
 Prereq.: STAT 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. Spring.
- ANTH 422 Native Americans** 3
 Native American cultures, their distinct life ways and contemporary problems. Fall. [I] AMS
- 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. Fall. (E) [I]
- ANTH 426 People and Cultures of Eastern Europe** 3
 A survey of culture in the nations of Eastern Europe concentrating on their contemporary aspects. Spring. (E) [I]
- ANTH 428 Cultures of Latin America** 3
 Prereq.: ANTH 140 or ANTH 170 or SOC 110. Introduction to modern and pre-Colombian 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. [I]
- 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. Includes critical analysis of Evolutionist, Historicist, Functionalist, Structuralist, Interpretive, and Marxist explanations with focus on post-1960s period. Fall.
- ANTH 433 Independent Study in Anthropology** 1 to 3
 Prereq.: Senior standing and permission of department chair. Directed study in Anthropology. On demand.
- ANTH 437 Internship in Anthropology** 3
 Prereq.: Permission of instructor and written acceptance of sponsoring organization. Anthropologically relevant work experience in an appropriate local, national, or international venue. Includes consultation with faculty, analysis of related resources, and preparation of final report. On demand.
- 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. Fall.
- 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. Spring. (O)
- ANTH 450 Archaeological Field School** 3 to 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.
- ANTH 451 Field School in Cultural Anthropology** 3 to 6
 Prereq.: Permission of instructor. Development of qualitative research skills central to cultural anthropology through language study, home stays, seminars, speakers, and excursions. Normally involves travel outside the United States. Irregular. [I]
- ANTH 465 Theories of Human Evolution and Behavior** 3
 Prereq.: ANTH 140 or 160 or permission of instructor. Examination of major schools of thought in biological evolution, with special emphasis on their application to human behavior, from the pre-Darwinian period to sociobiology. Spring. (E)
- 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 ecological degradation, population, underdevelopment, war and diplomacy, and cultural extinction. Fall. (E)
- ANTH 475 Topics in Anthropology** 3
 Examination of selected topics in Anthropology. Irregular.
- ANTH 490 Senior Thesis** 3
 Prereq.: One course from ANTH 329, 345, 370, 374, 450, 451, 470; and one course from ANTH 433, 437. Semester-long supervised research and thesis preparation, including in-class discussion and oral presentation. Fall.

ART

- 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. Study Area I
- 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. Study Area I
- ART 112 History of Western Art I 3
A survey of paintings, sculpture, and architecture from prehistoric times to the Renaissance. Study Area I
- 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. Study Area I
- ART 120 Design I 3
Exploration of spatial division, color, aesthetic theories, and their relationships to typical design problems in two dimensions. Study Area I
- ART 124 Three-Dimensional Design 3
Introduction to design elements of architecture, environment design, sculpture, etc. Construction of three-dimensional assemblages required. Study Area I
- 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. Study Area I
- ART 210 Greek Art 3
Previously ART 410. Prereq.: ART 110 or 112. Historical development of painting, sculpture and architecture from the Bronze Age through the Golden Age of Greece to the end of the Hellenistic Era. Spring. (I)
- ART 215 The African Diaspora 3
Previously ART 415. Introduction to the fine arts contributions of African-American artists as expressed through their culture. Focus is on individual research and presentations on historical and contemporary topics. Fall. [I] AMS
- ART 218 Renaissance Art 3
Previously ART 418. Prereq.: ART 110 or 112 or 113. Historical development of European painting, sculpture, and architecture from 1400 to 1600. Spring. (I)
- ART 224 Illustration I 3
Prereq.: ART 130. 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. Study Area I
- ART 230 Drawing II 3
Prereq.: ART 130. An in-depth study in drawing techniques as applied to individual expression. Study Area I
- 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. Fall. Study Area I
- ART 247 Photography I 3
Introductory course in black-and-white photography using a 35 mm camera. Includes contact printing, printmaking and enlarging, developing of film, and laboratory techniques. Photography as an art form of aesthetic choices is emphasized. Camera required. Fall. Study Area I
- 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. Study Area I
- ART 252 Painting I 3
Prereq.: ART 130. Exploration of techniques of painting in still life, landscape, and creative composition. Study Area I
- ART 260 Ceramics I 3
Functional and non-functional design in clay and glaze using various techniques. Study Area I
- 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. Study Area I
- 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--Handicraft Materials and Techniques I 3
Prereq.: ART 120 or 130. Varied handicrafts and materials are included. May not be substituted for Art 263. Study Area I
- ART 270 Mural Painting 3
Prereq.: ART 252 or permission of instructor. Introductory studio course of mural painting techniques - students develop, organize and execute group and individual public works. Includes study of the history of public art and contemporary trends in mural painting.
- ART 301 Art Education Theory and Practice I 3
Previously ART 200. Prereq.: ART 120, 130, 112, 252, 260, 240, or permission of instructor. Contemporary principles and practices in education through art in the elementary schools. Theories, materials, and processes applicable to these levels will be explored and evaluated. Field experience required. Open to Art Education majors only. [c]
- ART 302 Pre-Practicum in Art Education 1
Prereq.: ART 301 and admission to the Professional Program in teacher education. Taken concurrently with ART 303. Eight-week pre-student teaching requirement involving on-site classroom visits to assist with and observe a variety of public school settings accompanied by seminars. Reflective journaling, field reports, and resource development in art education are required. [c]
- ART 303 Practicum in Art Education I 2
Formerly ART 201. Prereq.: ART 301 and admission to the Professional Program in teacher education. Taken concurrently with ART 302. Actual teaching experience in CCSU's Saturday Art Workshop as a pre-student teaching requirement, accompanied by weekly seminars. Lesson planning is required. Open to Art Education majors only.
- ART 324 Illustration II 3
Prereq.: ART 224. A successful portfolio review is required before enrollment. Continuation of Illustration I.
- ART 341 Intaglio I 3
Prereq.: ART 240. A successful portfolio review is required before enrollment. 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. A successful portfolio review is required before enrollment. Single and multicolor water-based explorations in the following stencil techniques: photo emulsion, paper, tape, screen filler, fluid drawing and handcut film. Fall.
- ART 347 Photography II 3
Prereq.: ART 247. A successful portfolio review is required before enrollment. Use of a computer to expand subjective expression of photography-based aesthetic concepts. Topics include fine arts photo processes and procedures, analysis of subject matter, and examination and history of digital photography. Spring. [c]
- ART 348 Video Art I 3
Prereq.: COMM 330. A successful portfolio review is required before enrollment. Use of videography to explore experimental art-making possibilities.

- Production of video art projects and examination of the aesthetics and history of video as an art medium. Fall. [c]
- ART 349 Media Arts I 3
Prereq.: ART 448 and 347. A successful portfolio review is required before enrollment. Continuation of ART 348. Digital manipulation of video as a studio medium in terms of its potential for subjective expression. Creation of video art projects and examination of the aesthetics and history of the medium. Spring. [c]
- ART 352 Painting II 3
Prereq.: ART 252. A successful portfolio review is required before enrollment. Continuation of Painting I.
- ART 353 Painting III 3
Prereq.: ART 352. A successful portfolio review is required before enrollment. Continuation of Painting II.
- ART 360 Ceramics II 3
Prereq.: ART 260. A successful portfolio review is required before enrollment. Continuation of ART 260, with emphasis on wheel skills and glaze calculation.
- ART 361 Sculpture II 3
Prereq.: ART 261. A successful portfolio review is required before enrollment. Continuation of Sculpture I.
- ART 362 Sculpture III 3
Prereq.: ART 361. A successful portfolio review is required before enrollment. Further refinement of a particular sculpture theme via materials and techniques.
- ART 366 Handwrought Jewelry 3
Prereq.: ART 120 or 130. A successful portfolio review is required before enrollment. 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 400 Art Education Theory and Practice II 3
Prereq.: ART303 and admission to the Professional Program in teacher education. Previously ART 300. Contemporary theory and methods for art teachers of children in secondary grades. Comprehensive curriculum planning, materials and processes, and evaluation of teaching methods. Field experience required. Open to Art Education majors only. [c]
- ART 401 Student Teaching Seminar - Art 1
Prereq.: ART 400. Taken concurrently with EDSC 428 and 429. Eight-week seminar series addressing issues related to student teaching placements including classroom management, curriculum planning, organizational skills, and professional collaboration within the school and community. Open to Art Education majors only.
- ART 402 Practicum in Art Education II 1
Prereq.: ART 402 must be taken concurrently with or after completion of ART 401, EDSC 428, 429. Supervisory, mentoring, evaluatory experience in addition to exhibition installation for the CCSU Children's Art Workshop. Art Education majors only. [c]
- ART 403 Art Education and Technology 3
Prereq.: Permission of instructor. A successful portfolio review is required before enrollment. Development of basic skills in the use and application of audiovisual equipment, video, computers, and other related technologies for integration into the art classroom as teaching tools and tools used to communicate, create, and exhibit art. [c]
- ART 408 The Art of Greece in the Bronze Age 3
Prereq.: Art 110 or 112 or 113. Introduction to the art of Greece in the Bronze Age. The artistic and cultural development of mainland Greece, Crete, the Cycladic 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.
- 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.
- 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. Irregular. [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. AMS
- 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. [I]
- ART 420 Issues in Contemporary American Art 3
Prereq.: ART 110 or 112 or 113. American art post-World War II to the present with emphasis on topics such as post modernism, public sculpture, feminist art, multiculturalism and contemporary art criticism. Includes visits to Hartford and New York galleries. (O)
- ART 424 Illustration III 3
Prereq.: ART 324. A successful portfolio review is required before enrollment. Topics in the development of individual media techniques.
- ART 430 Color Drawing 3
Prereq.: ART 230 or 252 or 431. A successful portfolio review is required before enrollment. 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 mediums. Fall.
- ART 431 Life Drawing I 3
Prereq.: ART 130 or 435. A successful portfolio review is required before enrollment. 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 instructor. A successful portfolio review is required before enrollment. Continuation of ART 431. Open to majors only.
- ART 435 Advanced Drawing 3
Prereq.: Permission of instructor. A successful portfolio review is required before enrollment. Emphasis on development of expressive use of line and value. Various materials used including ink, pencil, conte crayon, chalk, wire, charcoal, and others.
- ART 441 Intaglio II 3
Prereq.: ART 341, graduate standing or permission of instructor. A successful portfolio review is required before enrollment. Continuation of Intaglio I. Spring.
- ART 443 Silkscreen II 3
Prereq.: ART 343, graduate standing or permission of instructor. A successful portfolio review is required before enrollment. Continuation of Silkscreen I. Fall.
- ART 448 Video Art II 3
Prereq.: ART 348 A successful portfolio review is required before enrollment. Digital manipulation of video as a studio medium in terms of its potential for subjective expression. Creation of video art projects and examination of the aesthetics and history of the medium. Spring. [c]
- ART 449 Media Arts II 3
Prereq.: ART 349. A successful portfolio review is required before enrollment. Multimedia fine arts topics selected by faculty and students to reflect their artistic preoccupation, or to provide research in particular skills, subjects, or trends in media arts. Examination of the aesthetics and history of multimedia. Spring. [c]

ART 450 Advanced Watercolor Painting and Related Media 3
Prereq.: ART 250 or permission of instructor. A successful portfolio review is required before enrollment. 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 460 Ceramics III 3
Prereq.: ART 360. A successful portfolio review is required before enrollment. Advanced clay and glaze techniques.

ART 464 Design-Handcraft Materials and Techniques II 3
Prereq.: ART 264 or 435. A successful portfolio review is required before enrollment. Continuation and extension of ART 264. Varied handcrafts, materials, and processes are explored as modes of artistic expression.

ART 465 Studio Topics 1 to 3
Prereq.: To be stipulated at time of course offering. A successful portfolio review is required before enrollment. 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 Jewelry Design 3
Prereq.: ART 120 or 366 or 435. A successful portfolio review is required before enrollment. Course exploring possibilities of materials and equipment in jewelry and metal work, with emphasis on design.

ART 468 Ceramics IV 3
Prereq.: ART 460. A successful portfolio review is required before enrollment. Thesis-clay and glaze design used to express a statement in form.

ART 490 Curatorship 3
Theory and practice in collection management, gallery and museum programming, and exhibition design. On demand.

ART 491 Aesthetic and Critical Dialogue About Art 3
Prereq.: ART 112, and 113; or permission of instructor. Investigation of art criticism and aesthetics through readings and critical discussions of art. Introduction to aesthetic and art criticism theories and issues will be explored.

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. [I]

ART 498 Independent Study 1 to 3
Prereq.: 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. May be repeated up to a maximum of 6 credits.

ART 499 Capstone in Art 3
Prereq.: Permission of advisor. A successful portfolio review is required before enrollment. Intensive exploration of the student's individual artistic direction. Emphasis on either the development of a professional-level portfolio or research project in art. On demand.

BIOLOGY

BIO 100 Search in Biology 3
Examination of various topics, contemporary issues, and problems in biological sciences. Three hours of lecture per week. No credit given toward biology majors or minors. Course may be repeated one time with a different topic. Irregular. Study Area IV

BIO 101 Search in Biology with Laboratory 3
Examination of various topics, contemporary issues, and problems in biological sciences. Sections include two lectures and one two-hour lab per week. No credit

given toward biology majors or minors. Course may be repeated one time with a different topic. Irregular. Study Area IV

BIO 111 Introductory Biology 3
Humans and the 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. Cannot be used to meet requirements for major or minor in biology. Three lectures per week. Study Area IV

BIO 113 Laboratory Experience in Biology 1
Prereq.: BIO 100 or 107 or 111 (may be taken concurrently), or permission of department chair. Laboratory experiences in biology, with a strong emphasis on hypothesis development, experimentation, data analysis, and written reports. One two-hour laboratory per week. Study Area IV [c]

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. Study Area IV

BIO 121 General Biology I 0 or 4
Structural and physiological organization of cells involved in growth and inheritance 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 lectures and one three-hour laboratory per week. Required for major, minor, or specialization in biology, but open to anyone interested in the subject. Study Area IV [c]

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, 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. Study Area IV [c]

BIO 132 Introductory Ecology 3
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 in Biology. Study Area IV

BIO 133 Laboratory in Introductory Ecology 1
Prereq.: BIO 132. Introductory biology laboratory course in field ecology to accompany, or follow, BIO 132. One three-hour laboratory or field trip per week. Cannot be used to meet requirements for major in Biology. Study Area IV

BIO 150 Long Island Sound -- Introductory Ecology 4
An introduction to the physical, chemical, geological, and biological characteristics of estuaries, using Long Island Sound as a model. Laboratories and field trips will emphasize identifying common coastal organisms and understanding their roles in estuarine ecosystems. Lectures, laboratories, and field trips. Summer. Study Area IV

BIO 201 Principles of Cell and Molecular Biology 4
Prereq.: BIO 122. Introduction to the major principles of cell biology including cell compartmentalization; flow of genetic information; protein structure, synthesis, and trafficking; signal transduction; and molecular responses resulting in changes in cell activity, cell division, or apoptosis. Three hours of lecture and one three-hour laboratory per week. [c]

BIO 202 Principles of Ecology and Evolution 4
Prereq.: BIO 122. Study of how organisms interact with each other and their physical environment, integrated with study of changes within species, speciation, and the relatedness of organisms. Life history, population biology, community ecology, population genetics, and systematics are included. Laboratories, many of which are field-oriented, will include gathering analyzing, and interpreting data. Three hours of lecture and one three-hour laboratory per week. [c]

- 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. Study Area IV [c]
- BIO 223 Information Technology Skills for the Biosciences 3
Prereq.: BIO 121 and MATH 124 or MATH 125. Introduction to current computer-based methods for data acquisition, analysis, synthesis and presentation. Preparation of a student-generated scientific report will serve as a model to learn information technology skills. Spring. Skill Area II [c]
- BIO 306 Genetics 4
Prereq.: BIO 201 or permission of the department chair, and 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 311 Cell Biology 4
Prereq.: BIO 201 or permission of the department chair, and CHEM 121. Cellular structure and function in terms of chemical composition, physiochemical, and functional organization of cells and organelles, including basic cellular metabolism. Membrane transport phenomena, excitation, contraction, trafficking, cell interactions, and other specialized cellular functions. Three hours of lecture and one three-hour laboratory per week. No credit given to students with previous credit for BIO 411. Irregular. [c]
- BIO 316 Microbiology 4
Prereq.: BIO 201 or permission of the department chair, and CHEM 121. Genetics and metabolism of bacteria, focusing on microorganisms that affect human health and the environment. Discussion areas include biochemistry, molecular genetics, immunology, biotechnology, infectious diseases, and environmental microbiology. Laboratory exercises deal with bacterial growth and control, diagnostic identification, bacterial genetics, and the roles of bacteria in humans and the world. Three-hours of lecture and one three-hour laboratory per week. [c]
- BIO 318 Anatomy and Physiology I 4
Prereq.: BIO 201 or permission of the department chair. Human gross morphology, histology, and physiology of the skeletal, integument, muscular, nervous, and respiratory systems, including effects of aging. Three hours of lecture and one three-hour laboratory per week. Fall. [c]
- BIO 319 Anatomy and Physiology II 4
Prereq.: BIO 201 or permission of the department chair. Human gross morphology, histology, and physiology of the endocrine, cardiovascular, lymphatic, renal, digestive, and reproductive systems. Nutrition, metabolism, fetal development and aging will also be covered. Three hours of lecture and one three-hour laboratory per week. Spring. [c]
- BIO 321 Invertebrate Zoology 4
Prereq.: BIO 202 or permission of the department chair. Structure, activities, life histories, and evolutionary relationships of invertebrate phyla. Three lectures and one three-hour laboratory per week. No credit given to those with credit for BIO 221. Irregular. [c]
- BIO 322 Vertebrate Zoology 4
Prereq.: BIO 202 or permission of the department chair. 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. No credit given to those with credit for BIO 222. Irregular. [c]
- BIO 326 Non-Vascular Plants and Fungi 4
Prereq.: BIO 202 or permission of the department chair. Life histories, reproductive strategies, evolutionary relationships and significance to humans are considered for algae, fungi, slime molds, lichens, liverworts and mosses. Some field trips to local sites will be included in laboratories. Three hours of lecture and three hours of laboratory per week. No credit given to those with credit for BIO 226. Irregular.
- BIO 327 Vascular Plants 4
Prereq.: BIO 202 or permission of the department chair. Phylogenetic relationships, life cycles, distribution and economic significance of vascular plants. Emphasis is placed on the seed plants. Three lectures and one three-hour laboratory per week. No credit given to those with credit for BIO 227. Irregular. [c]
- BIO 390 Special Problems in Biology 1
Prereq.: Written permission of instructor and department chair. Specific projects in various aspects of biology under the supervision of one or more department members. Written report or poster presentation, and portfolio review required. Course may be repeated with a different instructor for a maximum of two credits. On demand. [c]
- BIO 391 Internship in Biology 1 to 3
Prereq.: Written permission of instructor and department chair. Projects in Biology under the supervision of one or more department members. Projects generally involve work with associated organizations off campus. Written report or poster presentation, and portfolio review required. On demand. [c]
- BIO 401 Human Nutrition and Metabolism 3
Prereq.: BIO 201 and 202, or permission of department chair; CHEM 122. Biochemical and physiological processes that affect the nourishment of humans, including newborns and the aging. Interactions among nutrients, the environment and the body resulting in perturbations affecting human health are considered. Spring. [c]
- BIO 405 Ecology 4
Prereq.: BIO 201 and 202, or permission of department chair. Distribution and abundance of different types of organisms and the physical, chemical, and biological features and interactions that determine survival, growth, and reproduction in changing environments. Ecological theory and quantitative analyses included in lecture and laboratory. Three hours of lecture and one three-hour laboratory per week. Fall. [c]
- BIO 410 Ecological Physiology 4
Prereq.: BIO 201 and 202, or permission of department chair; CHEM 250 or 311. Animal physiology in which the diversity of physiological adaptations for various habitats is stressed. Three hours of lecture and one three-hour laboratory per week. Fall. (E) [c]
- BIO 412 Human Physiology 3
Prereq.: BIO 201 and 202, or permission of department chair; and CHEM 250 or 311. 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. Spring. [c]
- BIO 413 Human Physiology Laboratory 1
Prereq. or coreq.: BIO 412. Laboratory course to accompany BIO 412. One three-hour laboratory per week. Spring.
- BIO 415 Advanced Exploration in Cell, Molecular, and Physiological Biology 3
Prereq.: BIO 201 and BIO 202 and BIO 306 or BIO 311 or BIO 316. The focus will be on understanding issues of cell, molecular, and physiological biology, introduced in BIO 201, at an advanced level reflective of current research in these fields. Spring. (E) [c]
- BIO 420 Ornithology 4
Prereq.: BIO 201 and 202, or permission of department chair. 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. Spring. (E) [c]
- BIO 425 Aquatic Plant Biology 4
Prereq.: BIO 201 and 202, or permission of department chair. 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 hours of lecture and one three-hour laboratory per week. Some Saturday field trips required. Fall. (E) [c]

- BIO 434 Ecology of Inland Waters and Estuaries** 4
Prereq.: BIO 201 and 202, or permission of department chair; 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 hours of lecture and one three-hour laboratory per week. Some Saturday field trips required. Fall. (O) [c]
- BIO 436 Environmental Resources and Management** 3
Prereq.: BIO 201 and 202, or permission of department chair; CHEM 122. Analysis of the interactions of human population-resource depletion-pollution at local to global scales from an environmental management/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 201 and 202, or permission of department chair; 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 hours of lecture and one three-hour laboratory per week. Spring. (O) [c]
- BIO 440 Evolution** 3
Prereq.: BIO 201 and 202, or permission of department chair. Mechanisms of inter-generational change including mutation selection, and drift; sexual selection; speciation; and extinction. Irregular. [c]
- BIO 444 Plant Taxonomy** 3
Prereq.: BIO 201 and 202, or permission of department chair Scientific approach to identification and classification 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 hours of lecture and one three-hour laboratory per week. Irregular. [c]
- BIO 449 Plant Physiology** 3
Prereq.: BIO 201 and 202, or permission of department chair. Basic principles of plant function. Emphasis on the soil-plant-air continuum, phloem transport, photosynthesis and mechanisms of plant responses to the environment. Irregular. [c]
- BIO 450 Investigations in Plant Physiology** 1
Prereq. or coreq.: 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 480 Animal Behavior** 4
Prereq.: BIO 201 and 202, or permission of department chair. 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 one three-hour field or laboratory per week. Fall. (E) [c]
- BIO 481 Comparative Vertebrate Anatomy** 4
Prereq.: BIO 201 and 202, or permission of department chair. Comparative anatomy and functional morphology of representative organ systems of vertebrates. Laboratories include dissection and study of preserved material of representative vertebrates. Two hours of lecture and two three-hour laboratories per week. Irregular. [c]
- BIO 490 Topics in Biology** 3 to 4
Prereq.: BIO 201 and 202, or permission of department chair; junior status required. For advanced undergraduates. Selected studies in the biological sciences. Lectures, seminars, discussions, independent readings, reports and laboratory work appropriate for the topic will be utilized. Four credit hour offerings will include one three-hour laboratory per week. May be repeated with different topics. Irregular. [c]
- BIO 491 Advanced Studies in Biology** 1 to 3
Prereq.: BIO 390, written permission of instructor and department chair. Advanced projects in biology under the supervision of one or more department

members. It is expected that this research will be a continuation of, or closely related to research begun in BIO 390. Written report or poster presentation, and portfolio review required. May be repeated for a maximum of five credits. On demand. [c]

BIO 495 Capstone in Molecular Biology 4
Prereq.: BIO 202 and 306 or permission of the department chair. For advanced undergraduates. 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 and its relationship to cellular growth and differentiation. Three hours of lecture and one three-hour laboratory per week. Irregular. [c]

BIO 496 Capstone in Biosynthesis, Bioenergetics and Metabolic Regulation 3
Prereq.: BIO 202, and BIO 306, 311, or 316; and CHEM 312; or permission of department chair. For advanced undergraduates. Study of the molecular reactions that sustain life in connection to their role in biological systems. Structure and function of biomolecules. Bioenergetic principles involved in the synthesis and degradation of biological macromolecules. Integration and regulation of metabolic pathways will be discussed. Irregular. [c]

BIO 497 Biosynthesis, Bioenergetics and Metabolic Regulation Laboratory 1
Pre- or co-requisite: BIO 496 or 506. Laboratory to accompany BIO 496 or 506. One three-hour laboratory per week. Irregular. [c]

BIO 499 Undergraduate Thesis in Biology 1
Prereq.: BIO 491 (may be taken concurrently), written permission of thesis advisor and department chair. Student must submit thesis proposal based on project done in BIO 491, to the Biology Department and complete the undergraduate thesis under the supervision of the thesis advisor. The same BIO 491 project may not be the subject of both a HON 491 thesis and a BIO 499 thesis. On demand. [c]

BUSINESS

BUS 401 Marketing in Cyberspace 3
Prereq.: MIS 201, MKT 295. Theory and practice of effective Internet research strategies. Exploration of current practices in Internet-based information system technologies. Examination of the Internet as a marketing medium for product distribution and promotion. Irregular.

BUSINESS EDUCATION

BE 410 Office Education Methods 3
Prereq.: Senior status, MIS 201, Keyboarding Proficiency Examination, and Word Processing Proficiency Examination or WP 204. Concepts underlying office systems technologies taught at the secondary level. Includes instructional methods and techniques, teaching and reference material, and the use of community resources. Spring. [c]

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. Fall. [c]

CHEMISTRY

CHEM 102 Chemistry of Nutrition 3
An introduction to nutrition, the basic nutrients, their chemistry, and their role in health. Two hours of lectures and one two-hour laboratory per week. Study Area IV

CHEM 111 Introductory Chemistry 3
Introduction to fundamental concepts of chemistry; descriptive aspects of inorganic and organic chemistry. For Art, Technology, Elementary, and other non-

science majors. Two hours of lecture and one two-hour laboratory per week.

Study Area IV

CHEM 116 Introduction to Forensic Chemistry 4
Prereq.: CRM 110 and (MATH 101 or math placement exam). The concepts of chemistry as applied to law. Emphasis will be placed on the utility and validity of scientific evidence and the techniques of chemical analysis as used in criminal investigations. Three hours of lecture and one three-hour laboratory per week. Intended for students with a criminology major or minor. No credit given to students with credit for CHEM 111. Fall. Study Area IV. [c]

CHEM 121 General Chemistry I 4
Prereq.: MATH 101 or math placement test. 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, and one three-hour laboratory per week. Study Area IV [c]

CHEM 122 General Chemistry II 4
Prereq.: CHEM 121. Course places a greater emphasis on quantitative aspects. Three hours of lecture, and one three-hour laboratory per week. Study Area IV [c]

CHEM 238 Introduction to Research 1 to 6
Prereq.: Permission of instructor. Research experience for first-year students to juniors under faculty supervision. May be repeated for a maximum of 6 credits. On demand.

CHEM 250 Basic Organic and Biochemistry 4
Prereq.: CHEM 122. Principal family of organic compounds important in biological systems; fundamentals of biochemistry including acid-base properties, and metabolic pathways for energy production and biosynthesis of cellular components. Relevance is made to human health and everyday living. Three hours of lecture and one three-hour laboratory per week. Spring. (O) [c]

CHEM 301 Analytical Chemistry 4
Prereq.: CHEM 122, and (MATH 119 or MATH 121). Theory and practice of gravimetric and volumetric quantitative analysis, introduction to colorimetric analysis, and methods of separation. Two hours of lecture and two three-hour laboratories 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 hours of lecture and one three-hour laboratory per week. Fall, Summer.

CHEM 312 Organic Chemistry II 4
Continuation of CHEM 311, with emphasis on special classes of carbon compounds. Three hours of lecture 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 for fulfillment of program requirements except with permission of department. One three-hour laboratory per week. Spring.

CHEM 316 Spectrometric Identification of Organic Compounds 2
Prereq.: CHEM 313. A study of physical methods of structure determination, with emphasis on infrared, ultraviolet, nuclear magnetic resonance and mass spectrometry. Two three-hour laboratories per week. Fall. (O) [c]

CHEM 320 Biophysical Chemistry 3
Prereq.: CHEM 312, MATH 124 or 125 or 122, PHYS 122 or 126. Principles of physical chemistry emphasizing those areas of critical importance to biological equilibria. Topics include thermodynamics, solution equilibria, molecular transport, and enzyme kinetics. Three hours of lecture per week. Spring. (E) [c]

CHEM 321 Physical Chemistry of Thermodynamics and Kinetics 4
Prereq.: CHEM 301 (may be taken concurrently), CHEM 312, PHYS 125, MATH 152 (formerly MATH 122). In-depth examination of solid, liquid, and gas behavior,

including thermodynamics and kinetics as applied to chemical processes. Three hours of lecture and one three-hour laboratory per week. Fall. (O) [c]

CHEM 322 Physical Chemistry of Quantum and Statistical Mechanics 4
Prereq.: CHEM 301, PHYS 126, MATH 221 (all may be taken concurrently), CHEM 312. Quantum mechanics as applied to atomic and molecular structure. Introduction to symmetry concepts. Theory of rotational, vibrational, electronic, and magnetic resonance spectroscopies. Statistical foundations of thermodynamics. Three hours of lecture and one three-hour laboratory per week. Fall. (E) [c]

CHEM 402 Instrumental Methods in Analytical Chemistry 4
Prereq.: CHEM 301 and CHEM 322; or admission to graduate studies. Theoretical and practical aspects of the most important instrumental techniques used in chemical analysis, including potentiometry, coulometry, voltammetry, UV/Visible absorption spectrophotometry, fluorescence spectrophotometry, atomic spectrometry, gas chromatography, and high-performance liquid chromatography. Three hours of lecture and one four-hour laboratory per week. Spring. (E) [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 hours of lecture and one two-hour laboratory period per week. Spring. (O) [c]

CHEM 432 Chemistry Seminar 1
Prereq.: CHEM 321 or 322. Students will prepare presentations on topics of current interest in various fields of chemistry and may be required to attend seminars by faculty or outside speakers. Introduction to the use of the library, literature, and searching procedures in chemical research. One conference per week. Spring. [c]

CHEM 438 Undergraduate Research 1 to 6
Prereq.: Permission of instructor. Research participation for sophomore to senior students under faculty supervision. May be repeated for a maximum of 6 credits. On demand.

CHEM 454 Biochemistry 3
Prereq.: CHEM 312. General principles of biochemistry, chemical constituents of cells, metabolic pathways, energies, and biochemical regulators. Three hours of lecture per week. Fall.

CHEM 455 Biochemistry Laboratory 1
Coreq.: CHEM 454. Experimental work to accompany CHEM 454. One three-hour laboratory period per week. Fall. (E)

CHEM 456 Toxicology 3
Prereq.: CHEM 312 and BIO 122. Classes of toxic chemicals, their biotransformation and mechanisms of toxicity in humans. Includes natural and man-made chemicals, methods of risk assessment, environmental, and occupational regulatory standards. Spring.

CHEM 459 Bioinorganic Chemistry 3
Prereq.: CHEM 312 or admission to graduate studies. Principles of inorganic chemistry as applied to biology. Focuses on correlation of function, structure and reactivity of metals in biological systems. Three hours of lecture per week. Spring. (O) [c]

CHEM 460 Inorganic Symmetry and Spectroscopy 4
Prereq.: CHEM 322. Electronic structure and theories of bonding as they relate to the molecular structures, properties, and spectroscopy of inorganic compounds. Primary focus will be on the compounds of the d-block elements. Three hours of lecture and one three-hour laboratory per week. Spring. (E) [c]

CHEM 461 Descriptive Inorganic Chemistry 3
Prereq.: CHEM 321. A systematic study of main-group elements and the multitude of compounds they form. Acid-base, substitution, and oxidation-reduction reactions along with structural descriptions will be emphasized. Three hours of lecture per week. Spring. (O) [c]

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.

Three lectures or two lectures and one two-hour laboratory period per week depending on topic. May be repeated with different topics for a maximum of 9 credits. Irregular.

CHINESE

- CHIN 111 Elementary Chinese I 3
Open only to students with one year or less of high school study. Basic sounds and structure patterns of Mandarin-Chinese are established through a direct audio-lingual approach. Fall. Skill Area III
- CHIN 112 Elementary Chinese II 3
Prereq.: CHIN 111 or equivalent (normally, two years high school study). No credit given to students with previous credit for more advanced course work in Chinese except by permission of the department chair. A continuation of CHIN 111. Spring. Skill Area III [I]
- 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. Skill Area III [I]
- CHIN 126 Intermediate Chinese II 3
Prereq.: CHIN 125. A continuation of CHIN 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. Skill Area III [I]
- CHIN 341 The Chinese Heritage I 3
Prereq.: CHIN 125 or equivalent. Mainstreams of Chinese cultural development. Use of Chinese texts. Fall. Study Area II [I]
- CHIN 342 The Chinese Heritage II 3
Prereq.: CHIN 126 or 341 or equivalent. Continuation of CHIN 341. Spring. Study Area II [I]
- CHIN 351 Modern Chinese Literature I 3
Prereq.: CHIN 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 CHIN 351. (E) [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. Skill Area I

- 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. Skill Area I
- COMM 201 Radio Production I 3
Introduction to radio broadcast facilities and programming. Offered at Briarwood College. Majors only. Fall.
- COMM 202 Radio Production II 3
Prereq.: COMM 201 (C- or higher). Students develop programming formats and assist in program execution through a simulation of full station operation. Offered at Briarwood College. Majors only. Spring.
- 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. Study Area III
- COMM 220 Introduction to History of Film 3
Survey of 100 years of movies from all over the world. Emphasizes the development of film as a narrative art, using films that are breakthroughs in creative expression and audience involvement. Fall.
- COMM 230 Introduction to Mass Media 3
Study of the structure, roles and processes of the mass media. Primary emphasis is on radio, television and film. Examination of effects on society. Study Area III
- COMM 231 Communication Technologies 3
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 234 Introduction to Public Relations 3
Formerly COMM 233. 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
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. Fall.
- COMM 255 Visual Communication 3
Study of theoretical constructs, key agents, and applications of knowledge of visual communication. On demand.
- COMM 280 Business and Professional Speaking 3
Principles of Communication in report making, parliamentary processes, interpersonal conferences and related managerial functions. Emphasis on understanding and practicing patterns of Communication in various organized settings. Skill Area I
- COMM 295 Communication and Elements of Human Relations 3
Examination of the impact of communication on the creation of social environments of mutual understanding, respect, and responsibility in different interactive contexts. Spring. Study Area III
- COMM 301 Critical Thinking 3
Prereq.: COMM 245 (C- or higher). 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 (C- or higher). 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 (C- or higher). A systematic exploration of the nature of oral controversy and its impact on behavior. Fall.
- COMM 315 Political Communication 3
Examines the symbolic nature and dimensions of American politics and the American political system. Emphasis placed on the role, processes and effects of communication in political contexts. Fall.
- COMM 320 History of African-American Speakers 3
Survey of African-American speakers from the end of the 18th century to the present. Examination of the lives and texts of both the famous and lesser-known speakers and how they contributed to our nation's culture. Spring.
- COMM 330 Basic Video Production 3
Introduction to television production as it relates to verbal and visual communication. Work on individual and crew projects is a requirement.
- COMM 334 Public Relations Strategies and Techniques 3
Prereq.: COMM 234 (formerly 333) C- or higher. Formerly COMM 433. Public relations strategies and techniques through analysis and practical applications. Majors only.
- COMM 335 Communication Management 3
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. Majors only.
- COMM 337 Media Campaigns 3
Prereq.: COMM 230 (C- or higher). 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. Majors only.
- COMM 344 Models of Intercultural Communication 3
Prereq.: Permission of instructor. Study and discussion of models of intercultural communication in various contexts. Spring.
- COMM 345 Radio and Television Scripting 3
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. Majors only.
- COMM 353 Interviewing Theory and Practice 3
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.
- COMM 400 Communication Theory and Process 3
Prereq.: COMM 215 and COMM 230 and COMM 245 (all C- or higher). An introduction to prevalent theories of communication. Emphasis will be on human communication processes. Majors only.
- COMM 427 Television Programming and Production 3
Prereq.: COMM 330 (C- or higher). Study of broadcasting systems. Use of studio television facilities includes investigation of sound, lighting, graphics, production, and on-camera presentation. Majors only. Fall.
- COMM 428 Advanced TV Production 3
Prereq.: COMM 427 (C- or higher). A technique-centered course which focuses on combining TV studio production with field and remote components for broadcast, cable, or corporate application. Majors only. Spring.
- COMM 430 Comparative Mass Media Systems 3
Prereq.: COMM 230 (C- or higher). Philosophies and strategies of mass media operation around the world, emphasizing regional rather than national differences. Identification of basic philosophical orientations and theoretical underpinnings. Majors only. Spring.
- COMM 434 Campaign Development Methods 3
Prereq.: COMM 234 (formerly COMM 233) C- or higher. Formerly COMM 333. Objectives and methods of archival, focus group and survey research, analysis of data using SPSS and report writing procedures in the context of designing an actual strategic public communication campaign. Majors only. Spring.
- COMM 435 Images of Gender in the Media 3
Examines media constructions and representations of femininity and masculinity. Focus on popular forms of media including television, film, and advertising. Spring. WS
- COMM 443 Communication and Social Influence 3
Principles and processes of influencing attitudes, beliefs and behavior. Practical illustrations drawn from advertising, speeches, and other communicative settings. Spring.
- COMM 450 Communication Skills for Training and Development 3
Prereq.: Permission of instructor. For graduate students, COMM 500. Application of communication strategies for training and development in public and private corporate and institutional settings. Additional written work will be required for graduate students. Irregular.
- COMM 451 Environmental Communication 3
Prereq.: For graduate students, COMM 500. Knowledge, attitude, and behavior change related exclusively to environmental and natural resource conservation issues. Coercive, incentive based, and communication based change strategies will be contrasted. Non-formal education/communication, social marketing/advocacy campaigns and corporate public relations projects will be studied. Additional written work will be required for graduate students. On demand.
- COMM 452 Health Communication Campaigns 3
Prereq.: For graduate students, COMM 500. Explores the issues related to the development and implementation of health communication campaigns. Basic principles, theories and concepts governing them. Additional written work will be required for graduate students.
- COMM 453 Organizational Communication 3
Prereq.: COMM 253 (C- or higher). Study of communication theory and processes within organizational contexts. Majors only. Spring.
- COMM 454 Communication Strategies for Social Action and Community Development 3
Prereq.: For graduate students, COMM. 500. 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. Additional written work will be required for graduate students. Fall. [I]
- COMM 480 Television Documentary Production 3
Prereq.: COMM 428 (C- or higher). 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. Majors only.
- COMM 490 Internship Study 1 to 6
Prereq.: Permission of faculty advisor and department chair. Work in approved organization. Series of consultations and assigned readings and a final paper describing practical experiences in relation to theory are required. Majors only.
- COMM 491 Independent Study 1 to 3
Prereq.: Permission of advisor and department chair. Reading and research in approved topic under guidance of a faculty member of the Communication Department. May be repeated with different topics for a maximum of 6 credits. Majors only. On demand.

COMM 492 Legislative Intern Experience 3 or 6
Prereq.: Junior or senior status, permission of faculty and department chair. To be taken concurrently with COMM 490. 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. Majors only.

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. Majors only.

COMPUTER ELECTRONICS TECHNOLOGY

CET 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. HTML programming, operating systems, and electronic mail are also presented. Laboratory assignments are related to technical applications. Spring. Skill Area IV [c]

CET 223 Basic Electrical Circuits 3
Prereq.: MATH 115 (may be taken concurrently) or placement exam. Operation of DC circuits including voltage, current, resistance, power, electromagnetism, capacitance, inductance, and basic laws and theorems. Introduction of AC sine wave, phasor mathematics, and transformers. Laboratory experiments involve building circuits and using basic instruments to measure quantities. Fall. [c]

CET 229 Computer Hardware Architecture 3
Laboratory based course emphasizing the computer architecture and related components. Analyzing and troubleshooting the interrelationships between the operating system, computer hardware, and peripheral devices. Fall. [c]

CET 233 Advanced Electrical Circuits 3
Prereq.: CET 223, MATH 115 or placement exam, and PHYS 111; or PHYS 122 or 126. Reactance and power concepts in AC. Phasor analysis of RC, RL and RCL circuits, resonance, and filters. Laboratory experiments involve building circuits, using instruments to measure quantities, and observing phenomena. Spring. [c]

CET 243 Electronic Devices 3
Prereq.: TC 223, MATH 115 or placement exam, PHYS 111. Introduction to basic semiconductor theory including p-n junction, structure, parameters and performance characteristics of diodes, bipolar transistors, JFETs, thyristors, and optoelectronic devices. Laboratory experiments involve building circuits, using instruments to measure quantities, and observing phenomena. Spring. [c]

CET 323 Analog Circuits 3
Prereq.: TC 243. Linear integrated circuits and their applications including operational amplifiers, comparators, oscillators, 555 timers, rectifiers, power amplifiers, power supplies, active filters, and voltage regulators. Laboratory experiments stress circuit building, troubleshooting, theoretical, and instrumental concepts. Fall. [c]

CET 339 Computer System Administration 3
Laboratory course emphasizing concepts, tools, and application of technologies related to computer system administration. Includes the design, implementation, management, and maintenance of a state-of-the-art network operating system. Spring. [c]

CET 349 Fundamentals of Networking 3
Prereq.: CET 229 (formerly TC 229). Introduces the OSI model, network topologies, IP addressing, router configurations, router protocols and switching methods. Laboratory activities include creating cables, preparing the initial router configuration files and configuring IP addresses, and troubleshooting the configuration. Spring.

CET 363 Digital Circuits 3
Prereq.: Permission of instructor. Principles and applications of digital circuits, number systems, Boolean Algebra, combinatorial and sequential logic circuits, arithmetic circuits, and MSI logic circuits. Laboratory experiments focus on circuit building and troubleshooting using TTL integrated circuits. Fall. [c]

CET 402 Topics in Computer Electronics Technology 1 to 3
Prereq.: Permission of department chair. An individualized inquiry of comprehensive study into a selected technical area. The students may elect to examine processes, products or developmental aspects of networking, telecommunications or electronics. May be used as an elective on a graduate student's planned program advisor. Course may be repeated for a maximum of 6 credits for different topics. On demand.

CET 405 Applied Topics in Computer Electronics Technology 3
Prereq.: Permission of department chair. A laboratory oriented course providing comprehensive study of a selected technological topic. May be used as an elective on a graduate student's planned program of study with the permission of the program advisor. Course may be repeated for a maximum of 6 credits for different topics. On demand.

CET 443 Electronic Communication 3
Prereq.: CET 233 or, for graduate students, permission of the department chair. Formerly TC 443. RF transmitting and receiving circuits, amplitude and frequency modulation and detection, phase modulation, antennas, RF transmission lines, and data transmissions. Focus on units of measurement. Laboratory experiments cover resonance, modulation, demodulation, and transmission channels. Spring. [c]

CET 449 Advanced Networking 3
Prereq.: CET 349; for graduate students, permission of chair. Advanced router configurations, LAN switching theory and design, VLANs, WAN theory, design and technology, PPP, Frame relay, and ISDN. Laboratory activities include developing solutions for routing problems and implementing segmentation with bridges, routers, and switches. Can count as elective in CIT Technology Specialization. Fall.

CET 453 Microcomputers 3
Prereq.: For graduate students, permission of department chair. Microprocessor architecture including basic memory design, address decoding and internal register structure, and assembly language programming including addressing modes and instruction set. Laboratory work consists of programming and debugging assignments. Spring. [c]

CET 479 Internet Technologies 3
Prereq.: CET 349. For graduate students, permission of chair. Laboratory-based course emphasizing concepts, tools, applications, and development of internet-related technologies. Includes the planning, design, building, and management of an HTTP server. Can count as elective in CIT Technology Specialization. Spring. [c]

COMPUTER SCIENCE

CS 110 Introduction to Internet Programming and Applications 3
Examination of physical infrastructure of local and wide area networks, internet protocol implementation, world-wide web interface programming, interactive Java applet, and Visual Basic web programming. Skill Area II [c]

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. Skill Area II [c]

CS 115 Workshop in Computer Science 3
Prereq.: MATH 099 or placement test. Topics vary and include application-oriented languages, computer literacy-oriented software packages, and human-computer interface procedures. Skill Area IV [c]

CS 151 Computer Science I 4
Prereq.: MATH 119 or MATH 121 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. Skill Area II [c]

- CS 152 Computer Science II 4
Prereq.: CS 151 or MATH 471, and MATH 152 (formerly MATH 122) or 125. Advanced programming and data structures. 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, 112 or 113 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. Skill Area II [c]
- CS 210 Computing and Culture 3
Evolution of computing from early data processing to global networking. Examination of how society has accepted and transformed role of digital technology within its cultures and institutions. Emphasis on human-computer interaction, electronic communities, and examples of their applications. Online resources will be used. Skill Area IV [c]
- CS 213 Applications of Computer Programming 3
Prereq.: MATH 119 or 121 or 125 or placement test. 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. No credit given to students with credit for CS 151. Skill Area II [c]
- 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 and MATH 218. 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 to 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. Irregular. [c]
- 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 Computer Architecture 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 to 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 and in an area and for an amount of credit agreed upon prior to registration for the course. On demand. [c]
- CS 407 Advanced Topics in Computer Science 1 to 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 423 Computer Graphics 3
Prereq.: CS 253. 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 460 Database Concepts 3
Prereq.: CS 253. Data base systems are considered from both the designer's and user's point of view. Physical implementation and data access techniques are studied. Irregular. [c]
- CS 462 Artificial Intelligence 3
Prereq.: CS 253. 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. 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 490 Computer Communications Networks and Distributed Processing 3
Prereq.: CS 253 and 254. 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 495 Legal, Social, Ethical, and Economic Issues in Computing 3
Prereq.: Permission of instructor. Topics include privacy, security, law of torts in computing, and legal protection of software. Spring. [c]
- CS 498 Senior Project 1 to 3
Prereq.: senior standing, 21 credits toward major including one advanced 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
Opportunity for student to explore topics of current interest not covered in normal curriculum. Majors only. Irregular. [c]

CONSTRUCTION MANAGEMENT

- CM 125 Construction Graphics 3
Formerly IT 125. Interpretation of civil, architectural, structural, mechanical, and electrical drawings for building and highway construction projects. Emphasis on systems analysis and code compliance. Fall.
- CM 135 Construction Quantity Surveying 3
Prereq.: CM 125. Examination of the role of the quantity surveyor. Emphasis on analysis of architectural and structural drawings. Quantity surveys will be conducted for sitework, concrete, masonry, steel, and rough carpentry.
- CM 235 Building Construction Systems 3
Introduces basic body of knowledge of construction, including job identification, terminology, and the use of equipment as used in light and heavy construction.
- CM 245 Heavy/Highway Construction Systems 3
Formerly IT 245. Introduction to heavy and highway construction practices. Emphasis on construction equipment, labor, materials, and methods as they relate to field operations.
- CM 255 Construction Business Principles 3
Prereq.: CML 155, AC 210 or AC 211. Examination of the roles of the owner of a construction company. Emphasis on ethical, organizational, financial, legal, managerial, and personnel issues. Spring.
- CM 335 Construction Safety 3
A study of safety problems in the construction environment with emphasis on the day-to-day activities of the construction safety coordinator. Spring.
- CM 435 Construction Superintendency 3
Formerly IT 457. 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.
- CM 465 Construction Internship 3
Introduction to the construction workplace. Emphasis on field operations and management applications as they apply to building and heavy/highway construction projects. On demand.

CONSTRUCTION MANAGEMENT LABORATORY

- CML 155 Construction Documents 3
Formerly TC 155. Examination of the role of the construction project administrator. Emphasis on interpretation of construction documents and administration of project-related documents and reports associated with the construction process.
- CML 325 Building Construction Estimating 3
Formerly TC 351. Prereq.: CM 135 and CM 235. 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.
- CML 345 Heavy/Highway Construction Estimating 3
Formerly TC 345. Prereq.: CM 135 and CM 245. Examination of the role of the heavy and highway construction estimator. Emphasis on pricing labor, material, and equipment cost as they relate to civil construction projects. Spring. [c]
- CML 355 Construction Planning 3
Formerly TC 355. Prereq.: CML 325 or 345. 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.
- CML 455 Construction Project Management 3
Formerly TC 455. Prereq.: CM 255 and CML 355 or permission of chair. 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.

COUNSELING

- CNSL 299 Human Service 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.

CRIMINOLOGY AND CRIMINAL JUSTICE

- CRM 110 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 levels. Topics include entrance into the criminal justice system, differential treatment of offenders, and the enforcement, judicial, and penal subsystems. Study Area II AMS
- CRM 133 Law Enforcement and Society 3
Formerly CRM 233. 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. Study Area III
- CRM 220 Ideology and Violence 3
Examination of the causes and consequences of politically-motivated violent crime. Irregular. Study Area III
- CRM 222 Research Methods in Criminal Justice 3
Prereq.: CRM 110 and CRM 133 and PHIL 144; or, for minors, permission of chair. An overview of the methods of inquiry used in criminal justice research, principles of research design, knowledge of research strategies, conducting literature reviews, writing and presenting research ideas, and reading empirical reports.
- CRM 231 Criminal Procedure and the Courts 3
Prereq.: CRM 110 and CRM 133. 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. AMS

CRM 238 Corrections 3
Formerly CRM 338. Prereq.: CRM 110 and CRM 133. Overview of corrections in America to include sentencing, probation, classification, incarceration, community corrections, and parole. Critical analysis of goals of sentencing, correctional organization and management, alternatives to incarceration, and theories of behavioral change.

CRM 239 Juvenile Delinquency 3
Formerly CRM 439. Prereq.: CRM 110 or SOC 110 or PSY 112. Multidisciplinary approach to understanding the extent, nature, and origins of juvenile delinquency. The evolution of the juvenile justice process, legal issues, and methods of identifying, treating, and preventing delinquency are examined.

CRM 245 Diversity and Criminal Justice 3
Impact of race, ethnicity, and/or gender on the commission of criminal offenses, the likelihood of criminal victimization, and the treatment of criminal offenders. Also examined is the impact of race, ethnicity, and/or gender on those working in the criminal justice system. Study Area III

CRM 325 Victimology 3
Prereq.: CRM 222 or permission of instructor. Current theory and research regarding the victims of crime. Topics include victim vulnerability and culpability, restitution, mediation, treatment, and compensation. Irregular.

CRM 330 Domestic Violence 3
Prereq.: CRM 222 or permission of instructor. Theory, research, and current policy on domestic violence; patterns and trends, multi-disciplined theoretical explanations, historic and contemporary criminal justice response to domestic violence are critically analyzed. Irregular.

CRM 337 Criminology 3
Prereq.: CRM 222. Historical and contemporary overview of the nature of crime and causes of criminal behavior. Examination of the relationship between criminological theory and criminal justice policy and practice.

CRM 340 Crime and Capitalism 3
Prereq.: CRM 110, 337. Examines the extent, causes, and consequences of white collar, corporate, transnational, and government crime. Topics include U.S. government's role in drug trafficking. Irregular.

CRM 395 Physical Evidence in Criminal Investigation 3
Prereq.: CRM 222; or permission of chair. The collection and analysis of physical evidence found during the investigation of criminal cases. Topics include trace evidence such as fibers, hair, fingerprints, and blood; DNA analysis; firearm and tool marks; serial killers; and crime scene documentation and reconstruction.

CRM 415 Training and Development: 3
Prereq.: CRM 337 or permission of instructor. Analysis of theory and research pertaining to the assessment and development of job performance within criminal justice settings. Topics include job analysis, training design, and performance evaluation. Students design and implement a training project. Irregular.

CRM 420 Current Issues in Criminal Justice Policy 3
Prereq.: CRM 337 or permission of instructor. Major issues and ethical considerations related to criminal justice policy and practices. Topics may include gun control, mandatory sentencing, death penalty, drug legalization and privatization. Irregular.

CRM 433 Independent Study in Criminal Justice 1 to 3
Prereq.: CRM 337 and permission of instructor. Readings and research in selected areas of criminal justice. Student must present a written study proposal to the instructor directing the research prior to registering for the course. May be repeated for a maximum of 3 credits. On demand.

CRM 435 Supervised Field Studies in Criminal Justice I 3
Prereq.: CRM 337. Internship placement in a criminal justice setting under faculty direction and supervision. Corresponding class meetings and assignments

are also required. Students must arrange for placement by contacting the internship director semester in advance. Fall, Spring, Summer.

CRM 450 Drugs and Society 3
Prereq.: CRM 337; or graduate status; or permission of instructor. 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.

CRM 475 Controlling Anger and Aggression 3
Prereq.: CRM 337 or graduate status or permission of instructor. Multi-disciplinary overview of theory and research on anger and aggression. Topics include the emotion of anger, theories of aggression, and intervention strategies. Irregular

CRM 478 Current Topics in Criminal Justice 1 to 3
Prereq.: CRM 337 or permission of instructor. Analysis and evaluation of special topics in the general field of criminology and criminal justice. May be repeated with different topics for a maximum of 6 credits. Irregular.

DANCE

Note: DAN 151–158 and 377 are general activity courses, open to all students.

DAN 151 Modern Dance 1
Floorwork, center, and locomotor exercises geared to enhance the student's strength, coordination, balance, flexibility, spatial awareness, rhythmic understanding and dynamics of movement. Attention is given to isolated movements and full combinations across the floor. No experience required. Spring.

DAN 152 Beginning Ballet 1
Introduces basic fundamentals and terminology of ballet. Correct alignment of the body will be stressed. No experience required. Spring.

DAN 153 Intermediate Ballet 1
Prereq.: Permission of instructor. Attention will be given to a full ballet barre warmup with center floor combinations. Spring.

DAN 155 Dancercise 1
Individualized program of cardiovascular fitness through exercise to music. Irregular.

DAN 156 Slimnastics 1
Neuromuscular fitness program designed to tone and strengthen the body.

DAN 157 Beginning Jazz Dance 1
Introduction to jazz dance emphasizing the origin of dance in America. Simple center floor combinations will be taught. No experience required. Fall.

DAN 158 Intermediate Jazz Dance 1
Prereq.: Permission of instructor. A fast-paced rhythmic class with combinations across the floor. Fall.

DAN 377 Modern Dance and Theory 1
Prereq.: PE 272 or permission of instructor. Continuation of applying fundamental movements and modern dance techniques for creating dance. Choreography and pedagogical considerations will be explored and developed.

DESIGN (GRAPHIC/INFORMATION)

Note: Students enrolled in the following courses will be assessed a \$65 Design Lab Fee: DES 222, 322, 325, 326, 436, 438, 439, 465, 498, 499. Contact the Department at 832-2557 for additional information.

DES 126 Introduction to Graphic/Information Design 3
Overview of the principles, practices, and purposes of the field of graphic/information design. Study Area I

- DES 222 Graphic/Information Design I 3
Prereq.: ART 130. Introductory techniques for the professional practice of graphic/information design. Includes instruction in appropriate computer applications. Explores issues relating to typographic, symbolic, and three-dimensional design. Open to majors only. [c]
- DES 322 Graphic/Information Design II 3
Prereq.: DES 222 and either ART 230 or 224. Continuation of DES 222. Advanced techniques for the professional practice of graphic/information design. Includes instruction in appropriate computer applications. Typographic and series design solutions will be stressed. Open to majors only. [c]
- DES 325 Digital Imaging for Design I 3
Prereq.: DES 322, admission to BA Graphic/Information Design or permission of instructor. Computer processing of image for design (graphic/information) using a variety of programs. Image enhancement, manipulation, and derivation techniques will be explored. Open to majors only. [c]
- DES 326 Digital Imaging for Design II 3
Prereq.: DES 325. Advanced computer processing of image for design (graphic/information) using a variety of programs. Additional image enhancement, manipulation, and derivation techniques will be explored. Open to majors only. [c]
- DES 419 History of Design 3
Prereq.: ART 110 or 112 or 113. History and philosophy of design function and aesthetics. Topics include graphic design, industrial design, and architectural design. [I]
- DES 436 Graphic/Information Design III 3
Prereq.: ART 224 and DES 322. Continuation of DES 322. Additional advanced techniques for the professional practice of graphic/information design. Includes instruction in appropriate computer applications. Campaign and expansive design solutions will be stressed. Open to majors only. [c]
- DES 437 Design Internship 3
Prereq.: DES 322 and permission of instructor. Internship with professional graphic/information design organization. Open to majors only. [c]
- DES 438 Graphic/Information Design IV 3
Prereq.: DES 436. Continuation of DES 436. Additional advanced techniques for the professional practice of graphic/information design. Includes instruction in appropriate computer applications. Professional presentation and design for the web will be stressed. Open to majors only. [c]
- DES 439 Central Design 3
Prereq.: DES 322, successful Central Design portfolio review and permission of instructor. Graphic/information design practice. Features real project and production situations with simulation of a real world graphic/information design atmosphere. Open to majors only. [c]
- DES 465 Topics in Graphic/Information Design 3
Prereq.: Permission of instructor. Selected topics in graphic/information design. May be repeated with different topics for a maximum of six credits. Open to majors only. [c]
- DES 498 Independent Study in Graphic/Information Design 1 to 3
Prereq.: Permission of instructor. Special independent work to meet individual interest in areas not covered by regular curriculum. May include interdisciplinary information design projects. May be repeated with different topics for a maximum of 6 credits. Open to majors only. On demand. [c]
- DES 499 Computer Applications for Graphic/Information Design 3
Prereq.: DES 325 or permission of instructor. Study of the relationship of computer application in contemporary graphic/information design practice. Laboratory exploration of relevant software and its application in the field. Open to majors only. [c]

EARTH SCIENCES

- 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. Study Area IV
- ESCI 111 Elementary Earth Science 3
Introduction to the study of earth science. Selected topics in geology, meteorology, and astronomy. Two lecture hours per week and one two-hour laboratory. Open only to Elementary Education students. No credit given to students with credit for ESCI 110. Study Area IV
- ESCI 117 Introduction to the Solar System 3
Prereq.: MATH 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 Sciences majors or to students with credit for ESCI 178. Study Area IV
- 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 Sciences majors or to students with credit for ESCI 179. Study Area IV
- ESCI 121 Physical Geology 3
Basic principles of development of the earth, earth materials, and agents responsible for existing surface features. Study Area IV
- 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. Study Area IV
- 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. Study Area IV
- ESCI 129 Introduction to Meteorology 4
Prereq.: ECM 099 or placement exam. 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. Study Area IV
- ESCI 178 Planetary Astronomy 4
Prereq.: MATH 101 or placement Exam. 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. Study Area IV
- ESCI 179 Stellar Astronomy 4
Prereq.: MATH 101 or placement Exam. 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. Study Area IV
- ESCI 218 Women's 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 placed upon them. Two lectures and one two-hour laboratory period per week. On demand. Study Area IV
- ESCI 221 Mineralogy 4
Prereq.: CHEM 121, PHYS 122. Study of minerals, their formation, occurrence, properties, composition, and classification. Topics include crystal chem-

istry, internal crystal structures, optical and other physical properties, identification of crystal forms and mineral specimens, and an introduction to petrology. Three lectures and one three-hour laboratory per week. Fall.

- 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 or 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. Two lectures and two two-hour labs per week. Fall. Study Area IV
- 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 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)
- 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 Introduction to Hydrogeology 4
Prereq.: ESCI 121, MATH 152 (formerly MATH 122) or equivalent, and PHYS 121 or 125. Basic hydrogeologic principles. Overview of hydrologic and geologic relationships of ground water, contamination, and cleanup. Fluid mechanics with application to porous media. 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. (O)
- 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.
- ESCI 452 Independent Study in Earth Science 1 to 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 6 credits.
- ESCI 460 Seminar in Earth Science 1
Prereq.: Senior standing. Through individual readings, discussions, research, and presentations students will study contemporary topics in various fields of earth

science. Capstone requirement for all earth science majors in the B.A. and B.S. non-teaching programs. Hours by arrangement. Spring.

- ESCI 461 Physical Meteorology 3
Prereq.: ESCI 129, PHYS 121 or 125 (may be taken concurrently), or permission of instructor. 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 with different topics for a maximum of 6 credits.

ECONOMICS

- ECON 200 Principles of Economics I 3
Macroeconomics. Introduction to the prevailing pattern of American economic institutions, the theory of income, employment and investment in the national economy, and public policies that affect them. Study Area II
- 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. Study Area II
- ECON 250 Contemporary Economic Issues 3
Economic analysis of contemporary issues. Topics include federal deficits, regulation of business, income distribution, unemployment, military spending, consumer protection, technical change, and environmental degradation. Study Area II
- 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 a free market economy and the role of prices in the allocation of resources. Spring.
- ECON 310 Mathematical Economics I 3
Prereq.: ECON 200, 201, MATH 125 or MATH 152 (formerly 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. 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. 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. Economic analysis of metropolitan and regional entities with special focus on land use, location decision-making, the provision and role of public services, transportation, public finance, human resources, and social welfare. URS

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. [I]

ECON 435 Economic Development 3
Prereq.: ECON 200. Problems of accelerating development in developing 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. [I]

ECON 440 Comparative Economic Systems 3
Prereq.: ECON 200, 201. Economic systems, both theoretical and actual. Topics include the economy as a system, classification of economic systems, bases or criteria for comparison of systems, market economics, market socialism, and command economies.

ECON 445 Labor Economics 3
Prereq.: ECON 200, 201. 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.

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 STAT 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. 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.

ECON 465 Government and Business 3
Prereq.: ECON 201. Role of government in the mixed economy, with special emphasis on antitrust laws, regulation and deregulation, social legislation, and public enterprise.

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.

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 STAT 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

See also Education — Early Childhood, Education — Elementary, Education — Secondary, Education — Teacher Education, Educational Foundations, Educational Technology, Reading, Special Education, Technology Education and Vocational-Technical Education.

ED 498 Individual Study Project 1 to 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. Not for credit in graduate degree programs.

EDUCATION — EARLY CHILDHOOD

EDEC 413 Principles of Early Childhood Education 3
Prereq.: Admission to the Professional Program. Theoretical principles of developmentally appropriate programs for young children. Implications for practice in inclusive classrooms. Organizing and managing the environment. Facilitating play and active learning. Roles of child, teacher, and family. Field experience required. Taken concurrently with RDG 315. Fall.

EDEC 423 Methods and Curriculum for Early Childhood 3
Prereq.: Admission to the Professional program and EDEC 413 (may be taken concurrently). Integrated curriculum in early childhood classrooms. Investigating learning through play and exploration in inclusive environments. Examining individualized planning, implementation, and evaluation. Studying collaboration with families and other professionals. Field experience required. Taken concurrently with EDTE 310, SPED 423, and RDG 423. Spring.

EDEC 426 Integrated Curriculum for Early Childhood 3
Prereq.: EDEC 423. Integrated curriculum in primary classrooms. Investigating active learning, cooperative learning, problem solving and inquiry, program planning, implementation, and evaluation. Developing authentic assessment strategies. Studying collaboration with families and other professionals. Taken concurrently with EDTE 420, MATH 410, and RDG 316. Fall.

EDEC 430 Early Childhood Student Teaching 9
Prereq.: Permission of the Director of the Office of Field Experiences. Student teachers in early childhood placements are expected to work with teachers and children in professional activities. Placement culminates with student teachers assuming responsibility for planning and implementing units of instruction and developing leadership. Full semester of field-based work required. Taken concurrently with EDTE 430. Only the required concurrent course, EDTE 430, may be taken while student teaching. Not for credit in graduate degree programs.

EDUCATION — ELEMENTARY

EDEL 322 Effective Elementary Teaching 3
Prereq.: Admission to the Professional Program of Teacher Education, EDTE 315. Taken concurrently with EDTE 320. Emphasis on use of standards, development and alignment of objectives, daily and long-range plans, instructional strategies, assessment strategies and reflection on practice. Students develop and implement lessons.

EDEL 415 Elementary Social Studies Methods 1
Prereq.: Admission to the Professional Program of Teacher Education, EDTE 320. Taken concurrently with EDTE 420. Introduction to content and process of elementary social studies. Students examine curricular goals and materials,

research and construct integrative, developmentally appropriate social studies lessons, and implement lesson in field setting.

EDEL 422 Elementary Education General Methods 3
Prereq.: Admission to the Professional Program, EDTE 315 and 420. Methods and models of best practice for teaching content, concepts, and skills in elementary schools, including curriculum, lesson and unit planning, assessment, and resources appropriate for elementary education. Classroom management in learning communities. Taken concurrently with student teaching.

EDEL 430 Elementary Education Student Teaching 9
Prereq.: Permission of the Director of the Office of Field Experiences. Student teachers in elementary schools work with teachers and children in professional activities. Placement culminates with student teachers assuming responsibility for planning and implementing units of instruction and developing classroom leadership. Full semester of field-based work required. Not for credit in graduate programs. Only the required concurrent courses may be taken during student teaching.

EDEL 485 Approaches to Discipline in Elementary School (K-8) 3
Examination of the purposes, processes, and strategies of varied approaches to discipline in elementary education, kindergarten through grade eight. Spring.

EDUCATION — SECONDARY

Note: Student teaching courses (EDSC 412, 414, 415, 417, 419, 420, 421, 428, 429, 435) may not be repeated without the permission of the director of the Office of Field Experiences, as well as the chairs of the student's major department and of Teacher Education.

EDSC 375 Principles and Evaluation in Education (All Levels) 3
Prereq.: EDTE 315 or EDSC 256 or EDTE 316 and admission to Professional Program. Orientation to the role of the teacher in elementary and secondary schools. Emphasis upon development and understanding of objectives, curriculum, individual needs and differences, teaching skills, functions of school administration and services, issues of education, and professionalism. Field experience will be required. For Art, Music, Technology Ed., and Phys. Ed.: junior and senior years.

EDSC 412 Student Teaching, TESOL, All Levels 12
Prereq.: ENG 496; admission to the Professional Program and permission of the Director of the Office of Field Experiences. Full semester of student teaching in TESOL, K-12. One half of the semester is spent at the elementary school level, and one half at the secondary school level. On demand.

EDSC 414 Preliminary Student Teaching (Technology Education) 6
Prereq.: Admission to the Professional Program in Teacher Education and permission of the Director of the Office of Field Experiences. In accordance with the public school schedule, Technology Education students spend approximately an eight-week period in the first semester of the senior year in a public middle school. 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 415 Student Teaching (Technology Education) 6
Prereq.: Admission to the Professional Program in Teacher Education and permission of the Director of the Office of Field Experiences. In accordance with the public school schedule, Technology Education students spend approximately an eight-week period in the first semester of the senior year in a public senior high school. 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
Prereq.: Admission to the Professional Program in Teacher Education and permission of the Director of the Office of Field Experiences. 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
Prereq.: Admission to the Professional Program in Teacher Education and permission of the Director of the Office of Field Experiences. 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 - Elementary Music Education 4.5
Prereq.: Admission to the Professional Program for Teacher Education and permission of the Director of the Office of Field Experiences. Eight-week period in the last semester spent in a music education department of a public elementary school where the student demonstrates the ability to conduct learning activities in music and to work effectively with children.

EDSC 421 Student Teaching - Secondary Music Education 4.5
Prereq.: Admission to the Professional Program for Teacher Education and permission of the Director of the Office of Field Experiences. Eight-week period in the last semester spent in a music education department of a public secondary school where the student demonstrates the ability to conduct learning activities in music and to work effectively with youth.

EDSC 425 Principles of Secondary Education 3
Prereq.: EDSC 256 or EDTE 315 or EDTE 316; admission to the Professional Program in Teacher Education. General methods of instruction in the middle and high school classroom, including curriculum planning, evaluation, and the responsibilities of the teacher in the 7-12 classroom.

EDSC 428 Student Teaching - Elementary Art 5
Prereq.: Admission to the Professional Program of Teacher Education and permission of Director of the Office of Field Experiences. Eight-week student teaching where student demonstrates ability to conduct learning activities and to work effectively with pupils and teachers in an elementary program of art education. [c]

EDSC 429 Student Teaching - Secondary Art 5
Prereq.: Admission to the Professional Program of Teacher Education and permission of Director of the Office of Field Experiences. Eight-week student teaching where student demonstrates ability to conduct learning activities and to work effectively with pupils and teachers in a secondary program of art education. [c]

EDSC 435 Secondary Education Student Teaching 3 to 9
Prereq.: Admission to the Professional Program in Teacher Education and permission of the Director of the Office of Field Experiences. Experiences in classrooms of public secondary schools where the student demonstrates the ability to conduct secondary school learning activities and to work effectively with adolescent youth.

EDUCATION — TEACHER EDUCATION

EDTE 210 Education and Teacher Leadership in Diverse Learning Communities 4
Exploration of teaching, diversity, and the roles teachers play as leaders in diverse educational learning communities. Inquiry-based approach includes participant-observation, case analysis, examination of beliefs and research on learning and teaching. Field experience required. Taken concurrently with EDT 210. [c]

EDTE 310 Early Childhood Field Experience Practicum 1
Prereq.: Admission to the Professional Program of Teacher Education. Taken concurrently with EDEC 423. On-site experience including early childhood classroom observations and teaching experience with children and teachers in an early childhood setting. Spring.

EDTE 315 Principles of Learning: Elementary 4
Prereq.: Admission to the Professional Program. Examination of principles pertinent to teaching and learning. Emphasizes the use of educational theory and research findings applicable to classroom practices, learning communities, and learners' developmental levels. 30 hours of certification specific field experience required. In Elementary Education, taken concurrently with SPED 315 and RDG 315.

EDTE 316 Principles of Learning (Sec/K-12) 4
 Prereq.: Admission to the Professional Program in Secondary or K-12 Education. Examination of principles pertinent to teaching and learning. Emphasizes the use of educational theory and research findings applicable to classroom practices, learning communities, and learners' developmental level. 30 hours of certification/age-specific field experience in assigned setting(s) required.

EDTE 320 Practicum in Elementary Education I 1
 Prereq.: Admission to the Professional Program of Teacher Education, EDTE 315. Taken concurrently with EDEL 322 and RDG 316. Forty-five hours of on-site experience (two visits per week during regular school hours). Emphasizes classroom observation and teaching experience in an assigned public school setting appropriate to certification level. Includes related seminar. May be repeated for a maximum of two credits with permission of department chair.

EDTE 420 Practicum in Elementary Education II 1 to 2
 Prereq.: Admission to the Professional Program of Teacher Education; EDTE 320. Taken concurrently with EDEL 415 and RDG 412 in elementary education. Forty-five to 60 hours of on-site experience (two visits per week during regular school hours). Emphasizes teaching experience in an assigned public school setting appropriate to certification level. Includes related seminar. May be repeated for a maximum of two credits with permission of department chair.

EDTE 430 Topic Seminar in Leadership and Learning Communities 1
 Formerly ED 430. Prereq.: Admission to the Professional Program; Concurrent with student teaching. Examination of current research and theory pertaining to teacher leadership and the development of learning communities in classrooms and schools. Topics include educational reform, professional ethics, diversity, collegiality and continuous professional development. May be repeated for a maximum of two credits. Not available for graduate credit.

EDUCATIONAL FOUNDATIONS

EDF 400 Philosophy of Education 3
 Prereq.: Admission in the Professional Program in Teacher Education or permission of the department chair. Some major philosophies and their implications for education in the United States. Not for credit in graduate degree programs.

EDF 415 Educational Foundations 3
 Prereq.: Admission to the Professional Program or permission of department chair. Social and moral contexts of schooling, purposes of education in American society, contemporary educational policy, politics of the policy-making process and the role of teachers as leaders. Not for credit in graduate degree programs.

EDUCATIONAL TECHNOLOGY

EDT 210 Introduction to Educational Technology 1
 Systematic examination and application of software programs, applications and hardware (computer, network, internet) in the context of integrating technology into lesson planning. Taken concurrently with EDTE 210. [c]

EDT 315 Educational Technology in the Secondary School Classroom 1
 Prereq.: Admission to the Professional Program in Teacher Education. Examination and use of software applications and hardware in the context of integrating educational technology into lesson planning in the 7-12 classroom. [c]

EDT 415 Developing Instructional Materials 1
 Prereq.: EDT 210. Development of lesson plans, as part of integrated unit planning and teaching of specific content areas, to demonstrate utilization skills, design capabilities, production techniques, and evaluation strategies in education. [c]

EDT 490 Instructional Computing 3
 Examination and application of computers and other related technologies to various teaching situations with emphasis on developing skills in evaluating instructional software programs. [c]

ELECTRO-MECHANICAL TECHNOLOGY

EMEC 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.

EMEC 303 Electro-Mechanical Converters 3
 Prereq.: TC 213 or TC 233 or PHYS 122 or permission of instructor. Analysis of DC and AC single and three-phase motors and generators with focus on performance characteristics and their function in control systems. Fall. [c]

EMEC 313 Electrical Power Systems 3
 Prereq.: TE 213 or CET 233 or PHYS 122 or permission of instructor. Commercial, industrial, and residential applications of the National Electrical Code and Contemporary Wiring practices and techniques. Spring.

EMEC 323 Mechatronics 3
 Application of embedded microprocessor control systems in machines and mechanical devices. Topics include microprocessor and PLC software control program interface with electrical/electro-mechanical devices. Experiences with laboratory examples and applications. Fall.

EMEC 324 Fluid Power Systems 3
 A study of the design and fabrication, diagnosis, and repair of fluid power systems, including hydraulics, pneumatics, and fluids.

EMEC 333 Data Acquisition and Control 3
 Prereq.: TE 213. An examination of digital electronic and microprocessor-based techniques for data acquisition and control. Interfacing, signal processing, and computer communications are included. Spring. [c]

EMEC 334 Mechanisms for Automation 3
 Formerly TC 334. Prereq.: TE 213. A study of the design and fabrication, diagnosis, and repair of mechanical power systems, including mechanical transmission and control components. Spring. [c]

EMEC 414 Automated Assembly Cell Design 3
 Prereq.: ET 251, IT 480. Industrial robotics programming, cell design procedures, product evaluation, feeder selection, cell layout, and multi-task end effector design. Emphasis on developing a cost-effective automated assembly cell followed by cell simulation testing and evaluation. Fall. [c]

EMEC 463 Programmable Logic Controllers 3
 A study of programmable sequence controllers and programmable logic controllers for motion and process control. The use of ladder logic is included. Spring.

ENGINEERING TECHNOLOGY

ET 150 Introduction to Engineering Technology 3
 Introduction to engineering technology problem-solving techniques unique to areas of the technical world, including chemical, civil, construction, nuclear, manufacturing, mechanical, and electrical disciplines. Problem solving is presented in both English and International (SI) Units. [c]

ET 233 Electrical Circuit Analysis 3
 Prereq.: PHYS 122, MATH 152 (formerly MATH 122) or 125. Analysis of electrical circuits incorporating passive and active elements. Topics include laws and theorems applied to DC, AC, three-phase, diodes and operational amplifier circuits; transient and steady state response; phasors; frequency response, and resonance. Spring.

ET 240 Spreadsheet Tools for Engineers 3
 Prereq.: MATH 115 or 119 or 121 or higher and ET 150 or permission of instructor. The application of spreadsheet tools for problem solving, graphing, and analyzing engineering data, and programming formulas, procedures and macros in Excel and Visual Basic. Customization and programming of software using Visual Basic will be covered. [c]

- ET 251 Applied Mechanics I - Statics 3
Prereq.: ET 150 and PHYS 121 and MATH 136 (may be taken concurrently) or PHYS 121 and MATH 125. 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 252 Applied Mechanics II - Dynamics 3
Prereq.: ET 251. Introduction to kinematics of motion and kinetics of particles and rigid bodies. [c]
- ET 300 Human Factors Engineering (Ergonomics) 3
Prereq.: MFG 121 (formerly TC 121) or ETC 122 (formerly TC 122) or permission of instructor. 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 354 Applied Fluid Mechanics 3
Prereq.: ET 251. Application of fluid mechanics principles to systems. Study of fluid statics and dynamics including Bernoulli equation, momentum, energy, laminar and turbulent flow, pipe and open channel flow, pumping systems, and dimensional similarity. Lecture/lab required. Fall. [c]
- ET 357 Strength of Materials 3
Prereq.: ET 251, PHYS 121. The study of simple and combined stress, torsion, flexure, and deflection of beams, continuous and restrained beams, combines axial and bending loads, and columns. Computer applications. [c]
- ET 495 Topics in Engineering Technology 3
Prereq.: ET 150 and permission of instructor. Provides an opportunity to present topics of interest not currently covered in the engineering technology curricula. [c]
- ET 497 Engineering Economy 3
Prereq.: MATH 125 or MATH 135 or MATH 152 and senior standing; or, for graduate students, permission of instructor. Technical and engineering aspects of financing the construction of infrastructure facilities, determination of costs, and justification of improvements. Fall, Spring, Summer. [c]
- ETC 405 Applied Structural Systems 3
Formerly ET 405. Prereq.: ET 251, ETC 356 (formerly TC 356); or permission of instructor. Introduction to strength of materials, structural analysis and the structural design process for the construction manager or architect. Includes review of current structural steel and reinforced concrete design specifications and building code requirements. Cannot be used for credit in ET programs. Spring.
- ETC 451 Soil Mechanics and Foundations 3
Formerly ET 451. 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. Fall.
- ETC 454 Introduction to Transportation Engineering 3
Formerly ET 454. Prereq.: ETC 353 (formerly 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. Fall.
- ETC 457 Advanced Surveying 3
Formerly ET 457. Prereq.: ETC 353 (formerly TC 353) and MATH 125. Advanced topics in surveying including horizontal and vertical curve layout, traversing earthwork, and laser leveling. Computer applications and effective total station usage is stressed. Lecture/lab required. [c]
- ETC 458 GPS Mapping for GIS 3
Formerly ET 458. Prereq.: ETC 353 (formerly TC 353) or GEOG 378 or permission of instructor. Use of the Global Positioning System (GPS) to collect information for use in a Geographic Information System (GIS). Includes integration of vector and raster data sets with GPS data. Hands-on use of equipment is emphasized. [c]
- ETC 470 Structural Steel Design 3
Formerly ET 470. Prereq.: ETC 356 (formerly TC 356) and 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. Fall.

ENGINEERING TECHNOLOGY—CIVIL

- ETC 122 Introduction to CAD for AEC I 3
Prereq.: CET 113 (formerly TC 113) or permission of instructor. Concepts of computer-aided drafting and design applied to engineering drawings and schematics for the architectural, civil, construction, electrical, and mechanical disciplines. Laboratory course utilizing AutoCAD application software. Fall. [c]
- ETC 123 Introduction to CAD for AEC II 3
Prereq.: CET 113 (formerly TC 113) or permission of instructor. Concepts of computer-aided drafting and design applied to engineering drawings and schematics for the architectural, civil, construction, electrical, and mechanical disciplines. Laboratory course utilizing MicroStation application software. Spring. [c]
- ETC 353 Introduction to Surveying 3
Prereq.: MATH 115 or 119 or 121. Activities that will acquaint the student with instruments and tools of the surveyor including their use in the techniques of field surveying. Emphasis on actual layouts and areas and elevations as performed in the civil and construction disciplines. Spring.
- ETC 356 Materials of Construction 3
Prereq.: MATH 115 or 119 and CM 235 or ET 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. Fall.
- ETC 397 Structural Analysis 3
Formerly ET 397. 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]
- ETC 471 Reinforced Concrete Structures 3
Formerly ET 471. Prereq.: ET 357 and ETC 397 (formerly ET 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. Spring.
- ETC 472 Timber Structures 3
Formerly ET 472. Prereq.: ETC 397 (formerly ET 397). A study of the physical properties of wood used in structures and architecture. Influence on strength of moisture content, species, and preservation treatments are emphasized. Design and construction applications in bridges and buildings. Spring.
- ETC 475 Hydrology and Storm Drainage 3
Formerly ET 475. Prereq.: ETC 122 (formerly TC 122) and ET 252 and 354; or permission of instructor. Engineering topics pertaining to the hydrological cycle. Computational techniques and the use of application software for analysis of rainfall and runoff. Design skills for stormwater mitigation will be applied to course project. Lecture/lab required. Spring. [c]
- ETC 476 Environmental Technology 3
Formerly ET 476. Prereq.: CHEM 111 or 121, MATH 115 or 119. Environmental effects on air, water, and land from construction activities. Case studies with discussion of corrective action. Fall.
- ETC 498 Engineering Technology Senior Project (Capstone) 3
Formerly ET 498. Prereq.: Permission of instructor. Team work project to study, design, and/or research a project as engineering technologists. Final reports submitted to the department for archiving, and oral presentations are required. Project may originate from student, instructor, and/or industrial partner. [c]

ENGINEERING TECHNOLOGY— MECHANICAL/MANUFACTURING

ETM 256 Materials Science 3
Formerly ET 256. Prereq.: MATH 115 or 119 or 121 and CHEM 111 or 121. Analysis of the structure of and engineering properties of ceramic, metallic, polymeric, elastomeric, and composite materials with relation to design and processing. Fall.

ETM 260 Computer Aided Design and Integrated Manufacturing
CAD/CAM/CIM 3
Formerly ET 260. Prereq.: MFG 121 or permission of instructor. Introduction to solid modeling for design, drawing, assembly, mass property analysis and manufacturing operations on a CAD/CAM/CIM system. Emphasis is on computer hardware utilization for designing products. Lecture/Laboratory. Fall, Spring, Summer.

ETM 340 Geometric Dimensioning and Tolerancing 3
Formerly ET 340. Prereq.: MFG 121 or MFG 216 or permission of instructor. Interpretation, application, and verification of GDT aspects of engineering designs per the latest ANSI Y14.5. Calculations with toleranced dimensions. Concepts of datums, material condition modifiers, functional gaging, fits, true position, combined tolerances, and runout.

ETM 356 Materials Analysis 3
Formerly ET 356. Prereq.: ET 251 or MFG 118 or permission of instructor. Study of composition, properties, and characteristics of metallic and non-metallic materials. Structure of materials, phase diagrams, and effects of environment on materials. Laboratory includes use of standard apparatus for materials testing. Fall.

ETM 358 Applied Thermodynamics 3
Formerly ET 358. Prereq.: ET 251 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.

ETM 360 Computer Aided Planning (CAP) 3
Formerly ET 360. Prereq.: CET 113, STAT 104; or permission of instructor. Analysis of production problems using computers. Optimization of resources utilization, forecasting, scheduling and sequencing of activities, experience-based planning, inventory and maintenance planning for JIT environment, automated production, and project planning and analysis. [c]

ETM 367 Machine Design 3
Formerly ET 367. Prereq.: ET 252, 357. Study of kinematics of gear trains and three-dimensional stress analysis of power transmission elements. Topics include fasteners, bearings, springs, permanent connection, stress concentrations, notch sensitivity, and failure prevention. Fall.

ETM 422 Computer Systems and Integration 3
Formerly ET 422. Prereq.: CET 113 or permission of instructor. Laboratory-based program solving course on the installation, configuration, and diagnostics of computer hardware and software, including operating systems, networks, hardware components, and integration. Emphasis on installing and troubleshooting computer systems. Irregular. [c]

ETM 423 Applied Feedback Control Systems 3
Formerly ET 423. Prereq.: ETM 323 (formerly ET 323), MATH 463. Applied study of dynamic mechatronic feedback control systems. Topics include modeling of dynamic systems, dynamic response, feedback mechanisms, digital control, and design methods. Spring.

ETM 460 Computer Aided Design and Manufacturing (CAD/CAM) 3
Formerly ET 460. Prereq.: ETM 260 (formerly ET 260) or permission of instructor. Applied parametric solid modeling for design, drawing, assembly, mass property analysis, and manufacturing tool path simulation utilizing integrated CAD/CAM software. Emphasis on the design and manufacture of products. Lecture/Laboratory. Fall. [c]

ETM 461 Composites and Plastics Manufacturing Processes 3
Formerly ET 461. Prereq.: ETM 256 (formerly ET 256) or ETM 356 (formerly ET 356), CHEM 111 or CHEM 121, Analytical study of thermoplastic, ther-

moset, and polymer matrix composite materials, and the manufacturing processes utilized in the plastics and composites molding and fabrication industry. Lecture/Laboratory. Spring.

ETM 462 Manufacturing Process Planning and Estimating 3
Formerly ET 462. Prereq.: MFG 121 (formerly TC 121) and MFG 216 (formerly TC 216) and ETM 340 (formerly ET 340); or permission of instructor. Design and planning of production processes and operation sequence for discrete parts. Group Technology and Cellular Manufacturing. Tolerance analysis of parts and processes. Development of process plans, routings, operation sheets, and cost estimates for manufacturing operations.

ETM 463 Plastics and Composite Tool Design 3
Formerly ET 463. Prereq.: ETM 260 and ETM 461 or permission of instructor. Principles for design of molds and tooling for the production of plastic and composite products. Fall. [c]

ETM 464 CAD Solid Modeling and Design 3
Formerly ET 464. Prereq.: ETM 260 (formerly ET 260) and ETM 340 (formerly ET 340); or permission of instructor. Computer-aided design and analysis of solid, surface, and sheet metal models emphasizing product design. Uses computer software for design, detailing, mass property analysis, dimensional standards, and family tables. Two hours of lecture and one two-hour laboratory per week. Spring. [c]

ETM 466 Design for Manufacture 3
Formerly ET 466. Prereq.: ETM 260 (formerly ET 260) and ETM 340 (formerly ET 340); or permission of instructor. Design principles and contemporary industrial practices for product realization. DFX and evaluation of designs. Integration of product functions with design and manufacturing process. Mistake proofing, design for manual, automated, and robotic assembly. Product liability issues.

ETM 467 CAE Applied Finite Element Analysis 3
Formerly ET 467. Prereq.: ET 357 or permission of instructor. Application of the finite element method to structural engineering problems. Study of plane stress, plane strain, shell and continuum finite elements, mesh generation, proper element density and element interfacing, and composite modeling problems. Fall. [c]

ETM 468 Composite Design and Analysis 3
Formerly ET 468. Prereq.: ETM 467 (formerly ET 367) and ETM 256 (formerly ET 256) or ETM 356 (formerly ET 356) or permission of instructor. Study of the design and analysis of composite structures using classical composite theory coupled with the finite element method. New methods of structural redesign using composite materials. Fall. [c]

ETM 498 Engineering Technology Senior Project (Capstone) 3
Formerly ET 498. Prereq.: Permission of instructor. Team work project to study, design, and/or research a project as engineering technologists. Final reports submitted to the department for archiving, and oral presentations are required. Project may originate from student, instructor, and/or industrial partner. Spring. [c]

ENGLISH

Note: ENG 110 or an equivalent is a prerequisite for all other English courses.

Note: Sophomore standing is recommended for 200-level courses; 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 099 Remedial English 3
Focus on improvement of basic writing skills, in order to meet entrance requirements for ENG 110. After review of grammar and punctuation, the course emphasizes sentence and paragraph formation and the development of the coherent essay. Students who are required to take ENG 099 must pass the course with a C- or better before successful completion 30 hours of coursework. NOTE: Letter grade will affect GPA as if ENG 099 were a three credit course, but these credits will not count toward the number of credits required for graduation. Fall, Spring, Summer.

- ENG 110 Freshman Composition 3
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 equivalent is required for ENG 110. See skills testing and remediation policy, page 36. Students who have not completed their ENG 110 requirement prior to achieving 61 credits are required to take both ENG 110 and 202. Skill Area I
- ENG 202 Intermediate Composition 3
Prereq.: ENG 110 or permission of department chair. 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 resumes. Skill Area I
- ENG 203 World Literature I 3
Survey of great works of world literature from its origins to 1650, with emphasis on literatures other than British and American. Study Area I [I] [L]
- ENG 204 World Literature II 3
Survey of great works of world literature from 1650 to the present, with emphasis on literatures other than British and American. Study Area I [I] [L]
- ENG 205 British Literature I 3
Major British writers from the beginnings through the 18th century. Not a prerequisite for ENG 206. Study Area I [I] [L]
- ENG 206 British Literature II 3
Major British writers from the late 18th century to the present. ENG 205 is not a prerequisite. Study Area I [I] [L]
- ENG 210 American Literature I 3
American literature from the Colonial Period to the Civil War. Not a prerequisite for ENG 211. Study Area I [L] AMS
- ENG 211 American Literature II 3
American literature from the Civil War to the present. ENG 210 is not a prerequisite. Study Area I [L]
- ENG 212 African-American Literature 3
Survey of African-American writers from the eighteenth through twentieth centuries. Study Area I [L] AMS
- ENG 215 Introduction to Women Writers 3
Introduction to women writers of the world, primarily in the eighteenth, nineteenth, and twentieth centuries. Study Area I [I] [L]
- ENG 220 Shakespeare 3
Selected tragedies, comedies, and history plays. Study Area I [I] [L]
- ENG 235 Journalism I 3
The fundamentals of reporting and writing news and feature stories. Covers the basics of news-gathering, newsroom practices, and ethics and responsibilities of the journalist. Skill Area I
- ENG 236 Journalism II 3
Prereq.: ENG 235 or permission of instructor. This course builds on ENG 235, emphasizing news-gathering procedures and the challenges of writing on government, the law, and other areas of journalistic specialization. Skill Area I
- ENG 250 Contemporary Literature 3
Modern fiction, plays, and poetry in relation to modern life. Study Area I [L]
- ENG 260 Introduction to Poetry 3
A close analysis of poetry: prosody, diction, figurative language, structure, tone, and theme. Selections read from entire range of English and American poetry. No credit given to students with credit for ENG 111. Study Area I [L]
- 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. Study Area I [L]
- 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. Study Area I [I] [L]
- ENG 270 Dramatic Enactment 3
Introduction to the theory and applications of creative drama as an interpretive tool and a response to literature. (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. (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. Study Area I [L]
- ENG 312 Introduction to Syntax 3
Prereq.: ENG 200. Introduction to basic principles of syntactic theory within contemporary grammatical frameworks and how they generate grammatical sentences. Construction of sound syntactic arguments in linguistic theory. Emphasis on English syntax. Irregular. On demand.
- ENG 313 Introduction to Phonetics and Phonology 3
Prereq.: ENG 200. Articulation, acoustics, and perception of speech sounds in human language. Patterning and representation of sounds in phonological systems. Phonological processes. Use of the computerized Speech Laboratory. Irregular.
- 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.
- 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.
- 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.
- 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.
- ENG 336 The Romantic Age 3
British Literature from Blake to 1832, including Wordsworth, Coleridge, Byron, Shelley, and Keats. [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. [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, and Orwell. [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.
- 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. AMS

- 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.
- 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. AMS
- ENG 345 Modern African-American Literature 3
Study of selected writers, beginning with the Harlem Renaissance. AMS
- ENG 360 The Bible as Literature: Old Testament 3
Major books of Old Testament important to literature, their literary qualities, and their historical and cultural backgrounds. (E)
- ENG 361 The Bible as Literature: The New Testament 3
Major books of New Testament important to literature, their literary qualities and their historical and cultural backgrounds. Part of Apocrypha. (E)
- ENG 362 Greek and Roman Literature 3
Such major Greek and Roman writers as Homer, the Greek dramatists, Plato, Thucydides, Lucretius, and Virgil.
- ENG 365 The Modern European Novel 3
Representative works by such writers as Flaubert, Tolstoy, Dostoyevsky, Proust, Kafka, and Camus. [I]
- ENG 370 Creative Writing: Creative Nonfiction 3
Prose works that combine the authority of literature and fact. Subject matter may be drawn from popular culture, science, technology, nature or personal experience. Students will research or investigate potential topics, participate in workshops, and study various authors.
- ENG 371 Creative Writing: Fiction I 3
Introduction to the art and craft of literary fiction with emphasis on developing fiction writing ability and critical reading skills. Students will actively participate in workshop sessions.
- ENG 372 Creative Writing: Fiction II 3
Prereq.: ENG 371 or permission of instructor. Presupposes proficiency in vocabulary, basic techniques, and workshop method of short fiction writing. Students are expected to have already written a considerable body of work and to be prepared to submit stories at the semester's start.
- ENG 373 Creative Writing: Poetry I 3
Introduction to the art and craft of writing poetry, emphasizing both poetry writing ability and critical reading. Students are expected to fully participate in the workshop method of critique and revision in class.
- ENG 374 Creative Writing: Poetry II 3
Prereq.: ENG 373 or permission of instructor. Presupposes proficiency in vocabulary, poetry writing techniques, workshop methods. Students must already have a considerable body of work, and generate new work. Irregular.
- ENG 375 Creative Writing: Autobiography 3
Workshop style course in writing about the transformation of one's life experience into literary art. Includes study of autobiography, discussion of readings, topic and development strategy sessions, and critiques of work-in-progress. Irregular.
- ENG 376 Creative Writing: Essay 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.
- ENG 377 Creative Writing: Playwriting 3
Introduction to art and craft of playwriting, emphasizing writing ability and critical reading skills. Students are expected to actively participate in workshop sessions. Irregular.
- ENG 378 Creative Writing: Special Topics 3
Prereq.: One 300 level creative writing course 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.
- 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. (E)
- ENG 381 Editorial Writing 3
Prereq.: ENG 235 or 236 or permission of instructor. The study, evaluation, and writing of newspaper opinion pieces. (O)
- ENG 382 Travel Writing 3
Prereq.: ENG 235 or 236 or permission of instructor. Introduction to the art and craft of travel writing beginning with an overview of the genre and exploration of contemporary works. Students will write essays and articles.
- ENG 386 The Language of Film 3
Development of visual terminology analogous to literary terminology in order to understand better 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 minor requirements.
- ENG 401 Advanced Composition 3
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. Not applicable to M.A. in English programs.
- ENG 402 Advanced Composition and Technology in the English Classroom 3
Prereq.: ENG 110 and acceptance in the Professional Program of Teacher Education; or permission of instructor. Advanced writing for the refinement of writing skills. Explores ways to teach writing. Addresses the use of technology in secondary English classrooms in regard to instruction, data management, and classroom management. [c]
- 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. Not applicable to M.A. in English program.
- ENG 412 Editing 3
Prereq.: ENG 235 or 236 or permission of instructor. Emphasis on copy editing, headline writing, news judgment, photo handling, newspaper layout, and electronic desktop publishing. Irregular.
- 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. Irregular.
- 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. Irregular.
- ENG 420 Teaching English in Secondary Schools 4
Prereq.: ENG 402 and acceptance into the Professional Program of Teacher Education. Methods and materials for teaching English language and literature. Includes 30 hours of guided observations in middle and high school classrooms. Not applicable to M.A. in English programs.
- ENG 433 Introduction to Computational Linguistics 3
Prereq.: ENG 312 and 313. Investigation of computational models of natural language processing for both parsing and production of lexical, phonological, and syntactic units, including text to speech. The relationship between linguistic theories and the algorithms that can implement them. Irregular.

- ENG 434 Speech and Natural Languages Processing 3
Prereq.: ENG 312 and 313. Exploration of techniques and methods of human-computer dialogues with primary focus on how computers recognize, parse, and produce syntactic, semantic, pragmatic, and other discourse-theoretic aspects of human languages such as English.
- ENG 435 Student Teaching Seminar 1
Prereq.: ENG 420, EDSC 435 (taken concurrently). Discussion of issues that arise in the student teaching placements. Emphasis on improving individual classroom practices.
- ENG 445 American Drama 3
Development of American drama and its contribution to literature. Irregular.
- 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. AMS
- ENG 449 Major American Authors 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.
- ENG 450 Chaucer 3
Readings in Chaucer, with special emphasis on *The Canterbury Tales* and *Troilus and Criseyde*. Irregular.
- ENG 451 Milton 3
Readings in Milton's prose and poetry, with emphasis upon *Paradise Lost* and *Samson Agonistes*. Irregular.
- 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.
- ENG 461 Shakespeare: Major Comedies 3
Close analysis of major comedies and pertinent critical problems. Irregular.
- ENG 462 Shakespeare: Major Tragedies 3
Close analysis of major tragedies and pertinent critical problems. Irregular.
- ENG 463 Elizabethan and Jacobean Drama 3
Major dramatists from Kyd to Ford, excluding Shakespeare. Irregular.
- 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, Steele, Gay, Fielding, and Sheridan. Irregular.
- ENG 470 The Victorian Novel 3
Representative Victorian novelists with special emphasis on Trollope, Eliot, Dickens, Thackeray, and Hardy. Irregular. [I]
- ENG 474 Contemporary American Novel 3
American novels which have come to prominence since World War II and the changing cultural environment which they reflect. Irregular.
- ENG 475 The British Novel to 1832 3
Form and content of the novel with readings selected from Behn, DeFoe, Richardson, Fielding, Sterne, Smollett, Johnson, Burney, Walpole, Austen, and Scott. Irregular.
- 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. Irregular. [I]
- ENG 477 Modern British Poetry 3
Major works of Hardy, Hopkins, Yeats, D.H. Lawrence, Owen, Sassoon, Auden, Dylan Thomas, Larkin, Hughes, and others. Irregular. [I]
- ENG 478 Modern American Poetry 3
The study of important American poets from Dickinson to the present. Irregular.
- 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. Irregular. [I]
- ENG 484 Advanced Fiction Workshop 3
Prereq.: ENG 372 or permission of instructor. Presupposes mastery of the vocabulary and basic techniques of writing literary fiction and the workshop method. Students are expected to have a considerable body of work, and generate new work. Addresses creative process, preparation of manuscripts, publishing, and academic and career options. Irregular.
- ENG 485 Advanced Poetry Workshop 3
Prereq.: ENG 374 or permission of instructor. Presupposes mastery of the vocabulary and basic techniques of writing poetry, and the workshop method. Students are expected to have a considerable body of work, and generate new work. Addresses creative process, preparing poetry manuscripts, publishing, and academic and career options in creative writing. Irregular.
- ENG 486 Literature and Film 3
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. Not applicable to M.A. English program. Spring.
- ENG 487 20th-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, Pinter, Shaffer, Ayckbourn, Churchill, Gray, Hare, Stoppard, and others. Irregular.
- 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. Not applicable to M.A. English program.
- ENG 490 Individual Guided Reading 1 to 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 applicable to M.A. in English programs.
- 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. Not applicable to M.A. in English programs.
- ENG 494 Creative Writing: Independent Study 3
Prereq.: Permission of department chair. A senior conference course for students wishing to follow a planned program of writing/study. Typically, this course is for students wishing to prepare a publishing manuscript or a portfolio of their work for application to graduate programs in creative writing. Irregular.
- ENG 495 Internship 1 to 6
Prereq.: Permission of faculty advisor and department chair. Intern projects under the guidance of an English faculty advisor or the department chair. This course can help fulfill requirements for minors in writing, journalism, TESOL, and descriptive linguistics. It cannot be used to help fulfill requirements for an English major or minor.

ENGLISH AS A SECOND LANGUAGE

- ESL 108 English as a Second Language: Writing I 3
Formerly ENG 108. Intermediate to advanced writing in English for students whose native language is not English. Transition to academic writing. Grammar review. Skill Area I
- ESL 109 English as a Second Language: Writing II 3
Formerly ENG 109. Advanced writing in English for students whose native language is not English. Academic writing. Skill Area I
- ESL 201 Advanced Study in English as a Second Language 3
Formerly ENG 201. Prereq.: ENG 110 or permission of instructor. Selected aspects of advanced English for learners of English as second language. May be repeated with different topics for a maximum of 6 credits. Irregular. Skill Area I

ENTREPRENEURSHIP

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

- ENT 301 Entrepreneurship and New Venture Creation 3
Prereq.: MKT 295 or permission of the instructor. 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 AC 212. 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 MGT 295. 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 499 Field Study in Entrepreneurship 3
Prereq.: ENT 301 and ENT 305 or permission of instructor. Provides students with a practical knowledge of entrepreneurial ventures and small businesses by working closely with individual entrepreneurs to develop a business plan or complete a significant, applied business study, or by developing a business plan for a venture of the student's own choosing.

FINANCE

Note: Enrollment in 300- and 400-level Business courses requires admission to the School of Business.

- FIN 200 Introduction to Finance 3
Prereq.: STAT 200 and 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 minor. Business majors may take this course only as a free elective, and prior to taking FIN 295.
- FIN 210 Personal Financial Planning and Investing 3
Overview of the personal financial planning process. Examines personal incomes and budgets, home and consumer financing, insurance of personal assets, personal investing, and retirement planning. Business majors may only receive free elective credits for this course.
- FIN 295 Managerial Finance 3
Prereq.: Math 123 or Math 125 and AC 211 and STAT 200 all with grades of C- or higher. Basic course in business Finance. Topics include the financial envi-

ronment, analysis of financial statements, valuation of stocks and bonds, and capital investment decisions.

- FIN 301 Intermediate Managerial Finance 3
Prereq.: FIN 295 (C- or higher). Designed to develop a fundamental understanding of the following major topics in finance: the capital investment decision, capital structure and dividend policy, fund sources, working capital management, and corporate restructuring. [c]
- FIN 310 Principles of Investments 3
Prereq.: FIN 295 (C- or higher). A study of investment, types of securities, sources of investment information, the securities markets, and valuation of different assets. Attention is directed to the investment of funds by individual and institutional investors. [c]
- FIN 320 Financial Markets and Institutions 3
Prereq.: FIN 295 (C- or higher). The role, functions, and operations of capital markets, banks, and other financial intermediaries in modern, global economies. [c]
- FIN 400 Advanced Managerial Finance 3
Prereq.: FIN 301, 310 and 320 (with grades of C- or better) 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 with grades of C- or higher. An advanced course in investments with emphasis on security analysis and portfolio management practices. Topics include financial statement analysis, use of derivatives, and special techniques employed in forecasting, timing, and the development of investment strategies. [c]
- FIN 411 Financial Statement Analysis 3
Prereq.: FIN 301 and 310 and 320 (with grades of C- or higher). Examines how financial reports can be used by investors and financial analysts to make better economic decisions. Topics include: financial ratios, reported earnings, corporate performance, cash flow analysis to evaluate financial health of a company.
- FIN 420 Bank Management 3
Prereq.: FIN 301, 310 and 320 with grades of C- or higher. 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. Spring.
- FIN 421 Insurance 3
Prereq.: FIN 301, 310 and 320 with grades of C- or higher. 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 425 Financial Derivatives 3
Prereq.: FIN 301, 310 and 320 with grades of C- or higher; for graduate students, permission of department chair. Valuation of financial derivatives, including options and futures, applications to portfolio, and corporate risk management. Fall.
- FIN 430 International Financial Management 3
Prereq.: FIN 295 (C- or higher). 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 exchange rate analysis. Major topics of study include exchange risks, capital budgeting process of the multi-national corporation, and the international financial markets. [I] [c]
- FIN 490 Independent Study in Finance 1 to 3
Prereq.: FIN 301, 310 and 320 with grades of C- or higher. 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 496 Practicum in Finance 1 to 6
Prereq.: Permission of instructor. Students work on a real world project under the direct supervision of a faculty advisor. Projects may be sponsored by a host organization. Student performance is monitored and evaluated in relation to conditions set forth in an approved Project Plan. May be repeated for a maximum of 6 credits. On demand.
- FIN 498 Finance Seminar 3
Prereq.: Permission of instructor. Course content varies. Fall.
- FIN 499 CFA Seminar 3
Prereq.: FIN 295, 310, 410 with grades of C- or higher; or permission of instructor; for graduate students, prerequisite of FIN 410 must have C or higher. Focuses on the advanced investment concepts which are the foundation of Chartered Financial Analyst (CFA) professional designation. Topics include ethical and professional standards, quantitative methods, global markets and instruments, analysis of stock and bond investments, and portfolio management. Spring.
- ## 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 412 Fine Arts Across the Curriculum 3
Prereq.: Admission to the Professional Program in Teacher Education.
Introduction to concepts and skills in music, creative dramatics, dance/movement, physical education, and visual arts. Discussion of the basic strategies to integrate these disciplines into the school curriculum including the development of integrated lesson plans. Field experience required.
- FA 490 Integrating the Fine Arts for the Young Learner 3
Prereq.: Permission of department chair in Art, Music, or Theatre. 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.
- ## FRENCH
- FR 111 Elementary French I 3
Open only to students with one year or less of high school study. Foundations of the French sound system and structure are established through an aural-oral approach. Skill Area III
- FR 112 Elementary French II 3
Prereq.: FR 111 or equivalent (normally, two years high school study). No credit given to students with previous credit for more advanced course work in French except by permission of the department chair. Continuing the presentation of the elements of French language structure. Dictation and aural comprehension are stressed as well as conversation. Skill Area III [I]
- FR 125 Intermediate French I 3
Prereq.: One year of college French or equivalent. Taught in French. 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. Skill Area III [I]
- FR 126 Intermediate French II 3
Prereq.: FR 125 or equivalent. Continuation of FR 125. Taught in French. No credit will be given to students with previous credit for more advanced course work in French except by permission of the department chair. Skill Area III [I]
- FR 151 French for Reading Knowledge 3
Acquisition of basic French reading skills using scientific texts, magazines, popular literature, and other sources. On demand. Skill Area III [I]
- FR 225 Essential Skills in French I 3
Prereq.: FR 126 or French placement exam. Taught in French. Extensive use of technology and French language films, with emphasis on development of listening, speaking and writing skills. Fall. Skill Area III [I]
- FR 226 Essential Skills in French II 3
Prereq.: FR 225 or French placement exam. Taught in French. Improvement of the reading and writing of French through the use of contemporary texts, narratives, plays, and poems. Skill Area III [I]
- FR 261 Business French 3
Prereq.: FR 126 or permission of instructor. Taught in French. 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. Skill Area III [I]
- FR 301 Approaches to Reading French Texts 3
Prereq.: FR 226 (may be taken concurrently) or permission of instructor. Taught in French. Introduction to various literary genres, with emphasis on reading comprehension, structure, theme, characterization, and literary techniques. Fall. [I] [L]
- FR 302 Masterpieces of French Literature 3
Prereq.: FR 301 or permission of instructor. Taught in French. Study of representative major works in French literature with emphasis on reading strategies, literary movements, themes, and historical settings. Spring. Study Area I [I] [L]
- FR 315 Aspects of French History and Culture 3
Prereq.: FR 225 or permission of instructor. Taught in English; majors/minors read and write in French. Topics include the most important features of French history, with emphasis on major artistic achievements and physical and political geography. Fall. (E) Study Area II [I]
- FR 316 Contemporary France 3
Prereq.: FR 315. Taught in French. Politics, social structures, and cultural life of France today. France in relation to Western Europe and in a broader international framework. Spring. (O) Study Area II [I]
- FR 335 French for Oral Expression 3
Prereq.: FR 226. Taught in French. Development of grammar and idiom for oral proficiency through discussion of readings, films, and other documents. Fall. (E)
- FR 336 French Composition and Translation 3
Prereq.: FR 226. Taught in French. Advanced training in the use of French based on readings, translation, and composition. Spring. (O)
- FR 350 Topics in French Literature, Culture, and Language 3
Prereq.: FR 301 or permission of instructor. Taught in French. Aspects of French literature, culture, and language not covered in the standard curriculum. Specific topics as announced. May be repeated with different topics for a maximum of 6 credits. Irregular. [I]
- FR 441 Advanced Oral Practice 3
Prereq.: Permission of instructor. Open only to non-native speakers of French. Taught in French. Development of fluency in oral self-expression. Speech analysis to improve pronunciation and intonation. Fall. (O) [I]
- FR 451 The Structure of Modern French 3
Prereq.: Permission of instructor. Taught in French. Assists in the improvement of all aspects of oral expression. Includes study of the sound system, description of word forms, and analysis of syntactic structures. Intensive practice in pronunciation. Irregular. [I]
- FR 460 Advanced Grammar and Composition 3
Prereq.: FR 336 or permission of instructor. Taught in French. Written expression of French, particularly in idiomatic-free composition, designed to develop the ability to express shades of meaning. Comprehensive study of French grammar and levels of style. Use of translation from English. Spring. (E) [I]
- FR 472 Studies in French Culture 3
Prereq.: FR 302, 336, and permission of instructor. Taught in French. Major cultural developments in post-war and contemporary France. Emergence of new

forms of self-expression including the New Novel, dialogue between high and low culture, and minor genres. Emphasis on the mass media. Spring. (O) [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. On demand. Study Area II
- GEOG 110** Introduction to Geography 3
Basic patterns of physical environment and relationship of human patterns to them are explained. Study Area II
- 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. Study Area II [I]
- GEOG 220** Human Geography 3
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. Study Area II [I]
- GEOG 223** Geography of the Popular Music Industry 3
Examines the growth of the popular music industry and its impact on the spatial/locational nature of society. Basic human geographic concepts such as migration, diffusion regional identity, and place are discussed. Spring. Study Area II
- GEOG 241** Introduction to Planning 3
Introduction to the principles and practice of planning at various spatial scales - regional, metropolitan, urban, and neighborhood. Study Area II AMS
- 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. Spring. Study Area II [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.
- GEOG 266** Air Photo Interpretation 3
Conferences and practical exercises in uses and interpretation of aerial photographs. Fall.
- GEOG 270** Geography of Hazards 3
Prereq.: ESCI 110 or GEOG 110. Examines human and environmental generation of risks and hazards. Discussion will focus on both the social and physical aspects of causality, risk perception and mitigation. Spring. Study Area II
- 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. Study Area IV
- GEOG 275** Soils and Vegetation 3
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. Study Area IV
- 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. [c]
- 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. Study Area II [I]
- GEOG 291** National Parks and World Heritage Sites 3
Examination of sustainability issues for tourism development in preserved areas. Comparative analysis of national park systems globally. Case studies of individual national parks and UNESCO World Heritage sites included. Spring. Study Area II [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. AMS
- GEOG 374** Climatology 3
Prereq.: GEOG 110 or ESCI 110, or permission of instructor. Earth's climate with an emphasis on the physical processes and dynamics of the atmosphere. Topics include regional, urban and historical climatologies, atmospheric pollution, and climate change. Some class time will be devoted to practical exercises. Spring.
- GEOG 378** Introduction to Geographic Information Systems 2
Prereq.: GEOG 256 or 276, or permission of instructor. Introduction to raster and vector geographic information systems, with a focus on application areas in natural resource management, urban and regional planning, and business. Taken concurrently with GEOG 379. One two-hour lecture and one two-hour lab per week. [c]
- GEOG 379** GIS Laboratory 1
Geographic information systems laboratory. Application areas vary by section. Taken concurrently with GEOG 378. [c]
- GEOG 414** Teaching Methods in Geography 2 to 3
Prereq.: Admission to the Professional Program. Concepts, methods, and materials for teaching geography. Middle-level certification students selecting the Complementary Subject Matter Area in geography will enroll for two credits; all others will enroll for three credits. Fall.
- 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. 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. 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. No credit given to students with credit for GEOG 420. On demand.
- GEOG 433** Issues in Environmental Protection 3
Issues in the environmental protection planning process. Topics include air quality, noise, solid waste, hazardous materials, wilderness areas, endangered species, wetlands, and land use issues. A single field trip may be required.
- GEOG 434** Mexico, Central America, and the Caribbean 3
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. [I]
- GEOG 435** Japan and Korea 3
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. Fall. (O) [I]
- GEOG 436** South America 3
A survey of the countries of South America with emphasis on people, places, and problems. Spring.

- GEOG 437 China 3
Physical, economic, political, and historical geography of China. Special consideration of her population, resources, agricultural growth, and industrial expansion. Discussion of the geographic bases and the expansion of the Chinese State and the contemporary foundation of Chinese national power. Fall. (E) [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. URS
- GEOG 440 Rural Land 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. (O)
- GEOG 441 Community and Regional Planning 3
Prereq.: GEOG 241 or permission of instructor. Philosophies, theories, and principles involved in planning of regions and urban areas. Fall. (E) URS
- 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.
- 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. (E) [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. (E) [I]
- GEOG 450 Tourism Planning 3
Prereq.: GEOG 290, 291 or permission of chair. 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.
- GEOG 451 Tourism Development in Southern New England 3
Prereq.: GEOG 290 or 291 or permission of instructor or department chair. Study of the tourism industry, including perspectives on supply, demand, and socio-economic impacts. Focus on issues, problems, and opportunities in tourism, including functions of state and regional tourism agencies in southern New England. Spring. (E)
- GEOG 452 European Union 3
Environmental, cultural, and economic patterns that give character to the different countries, regions, and cities of the European union. Analysis of spatial changes associated with European integration. Spring. [I]
- GEOG 453 Recreation and Resort Planning 3
Prereq.: GEOG 450 or permission of instructor or department chair. Study of the supply, location, distribution, use, planning, management, and impact of recreation facilities in both urban and rural situations. Spring.
- GEOG 454 Geography of Tourism Marketing 3
Prereq.: GEOG 290 and MKT 295 or permission of instructor. Examination of geographic elements and issues within the tourism industry, with a focus on how these influence the spatial aspects of tourist behavior and industry development strategies. Spring.
- GEOG 455 New Directions in Tourism 3
Prereq.: GEOG 290 or 291 or permission of instructor or department chair. Study of contemporary forms of tourism including ecotourism, heritage tourism, and educational travel, which have their own impacts, management, and planning needs, and which differ notably from the traditions of mass tourism. Fall. [I]
- GEOG 459 Field Studies in Regional Geography 3 to 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. May be repeated for a maximum of twelve credits but only six of these credits may be used toward the Geography major. Winter, Summer. [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 471 Topics in Human Geography: 3
Prereq.: GEOG 220 or permission of instructor. Selected topics in human geography. May be repeated with different topics for a maximum of 6 credits. On demand.
- GEOG 472 Topics in Physical Geography 3
Prereq.: GEOG 272 or 275 or 374 or permission of instructor. Selected topics in physical geography including urban climates, microclimatology, global change, coastal environments, and the impact of glacial and periglacial processes on landforms. May be repeated with different topics for a maximum of 6 credits. Fall.
- GEOG 473 Geography of Natural Resources 3
Prereq.: GEOG 110 or permission of instructor. Examines the definition, location, and evaluation of management. Focus on management strategies and cost benefit analyses of environmental degradation associated with resource use. Examples illustrated with GIS and remote sensing techniques. Spring. (O)
- GEOG 476 Advanced Cartography 3
Prereq.: GEOG 256 or 276 or permission of instructor. Advanced design and production of maps using cartographic/GIS and graphic software. Use of statistical packages to process data for cartographic purposes. No knowledge of computer programming required. Spring. [c]
- GEOG 478 GIS Design and Implementation 3
Prereq.: GEOG 378 or permission of instructor. Advanced study of geographic information systems and applications. Students will prepare a proposal to develop GIS for a municipality or non-profit organization. Portions of the database will be implemented. Concentration on vector software. Fall. [c]
- GEOG 483 Topics in Planning 3
Prereq.: GEOG 241 or permission of instructor. Selected topics in planning. May be repeated with different topics for a maximum of 6 credits. On demand.
- ## GERMAN
- GER 111 Elementary German I 3
Open only to students with one year or less of high school study. Functional approach to grammar. Facility in understanding spoken German and in reading is developed. Skill Area III
- GER 112 Elementary German II 3
Prereq.: GER 111 or equivalent (normally, two years high school study). No credit given to students with previous credit for more advanced course work in German except by permission of the department chair. Presentation of elements of German grammar is completed. Further practice in conversation; writing and speaking based on collateral reading. Skill Area III [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 course work in German except by permission of the department chair. Fall. Skill Area III [I]

GER 126 Intermediate German II 3
Prereq.: GER 125 or equivalent. Continuation of GER 125. No credit will be given to students with previous credit for more advanced course work in German except by permission of the department chair. Spring. Skill Area III [I]

GER 225 German Composition and Diction 3
Prereq.: GER 126 or permission of instructor. Course to train students in self-expression by means of frequent composition in German, in addition to systematic drills in pronunciation and intonation. Fall. Skill Area III [I]

GER 226 German Structure and Idiom 3
Prereq.: GER 225 or permission of instructor. Course designed to develop idiomatic usage and fluency of expression. Spring. Skill Area III [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. Study Area I [I] [L]

GER 315 German Civilization to 1800 3
Prereq.: GER 226 (may be taken concurrently). Cultural development of Germany from its beginnings to 1800. Fall. Study Area II [I]

GER 316 German Civilization from 1800 to Present 3
Prereq.: GER 226 (may be taken concurrently). Cultural development of Germany from 1800 to the present. Spring. Study Area II [I]

GER 335 Advanced Composition and Diction 3
Prereq.: GER 226. Additional practice in written and oral expression. Fall. [I]

GER 336 Advanced Structure and Idiom 3
Prereq.: GER 335. Additional practice in idiomatic usage and verbal fluency. Spring. [I]

GER 360 Literary Masterpieces to 1800 3
Prereq.: GER 225 or 226 (may be taken concurrently). Introduction to major works in German literature from its beginning to 1800. Fall. Study Area I [I] [L]

GER 379 19th Century German Literature 3
Prereq.: GER 305 or equivalent. Literature of Romanticism, Realism, and Naturalism. Spring. (O) [I]

GER 380 20th Century German Literature 3
Prereq.: GER 305 or equivalent. Literature of Impressionism, Expressionism, Neue Sachlichkeit, and other modern movements. Fall. (E) [I]

GER 385 The Sound and Structure of German 3
Prereq.: Permission of instructor. Intensive and systematic study of the grammatical and phonetic structures of the German language for the advanced student. On demand. [I]

GER 410 Business German 3
Prereq.: Permission of instructor. Development of the oral and written skills needed for bilingual work in the fields of business, tourism, science, technology, law enforcement, social service and international relations. Fall. [I]

GRAPHICS TECHNOLOGY

GRT 112 Digital Imaging for Graphics Technology 3
Techniques of drawing and digital imaging for graphics technology. Emphasis on computer operations and the use of image editing software programs (Lab). Fall.

GRT 212 Graphic Arts Processes 3
A course designed to provide the student with a basic working knowledge of the printing industry. Printing, duplicating, and copying processes are included. (Lab).

GRT 242 Introduction to Graphic Design and Color 3
Prereq.: GRT 112 or 212 or permission of instructor. Introduction to the use of graphics elements and color. Topics include production design for brochures, packaging, and web; includes theory and practice of process color printing. (Lab). Fall.

GRT 342 Screen Printing and Post-Press Operation 3
Fundamental operations and related information in post-press printing operation. Copy preparation, screen and stencil systems, printing techniques, ink and substrate compatibility, and finishing processes. Includes the study of layout and hand binding. (Lab). Spring.

GRT 352 Graphic Design and Typography 3
Prereq.: TC 212 or permission of the instructor. The study of type and its relationship 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. Spring. [c]

GRT 362 Estimating and Scheduling for Printing 3
Emphasis placed on 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, through manual techniques and computer estimating software. Fall.

GRT 402 Topics in Graphics Technology 1 to 3
Prereq.: Permission of department chair. An individualized inquiry of comprehensive study into a selected technical area. The student may elect to examine processes, products or developmental aspects of graphics technology. May be used as an elective on a graduate student's planned program of study with the permission of the program advisor. Course may be repeated for a maximum of 6 credits for different topics. On demand.

GRT 405 Applied Topics in Graphics Technology 3
Prereq.: Permission of department chair. A laboratory oriented course providing comprehensive study of a selected technological topic. May be used as an elective on a graduate student's planned program of study with the permission of the program advisor. Course may be repeated for a maximum of 6 credits for different topics. On demand.

GRT 442 Print Production 3
Prereq.: GRT 212 (formerly TC 212). Applied study of pre-production, production, and post-production in the printing industry. [c]

GRT 462 Advanced Graphic Arts Techniques 3
Prereq.: GRT 442. Integrated experience of advanced instruction in both flexo, offset and digital printing. Experiences will include advanced color work and direct to press operations. Cultural and historical aspects of graphic arts and industrial visitations. (Lab). [c]

GRT 472 Digital and Film Photography 3
Principles of conventional and digital camera techniques. Includes camera handling, exposure, composition, developing, printing, and editing. Darkroom plans and equipment listings will be evaluated. Field trips to selected photography studios. (Lab) Open to all students. Fall.

HEALTH AND HUMAN SERVICE PROFESSIONS

HHSP 246 Health Care Ethics 3
Introduction to basic ethical theories and the analysis of the application of such theories to contemporary health care issues. Nursing support course.

HHSP 341 Ethical Concerns of the Female Patient 3
Prereq.: PHIL 144 or HHSP 246, or permission of instructor. Examination of medical-ethical concerns of women beginning with problems afflicting the adolescent female and ending with issues surrounding the care of the elderly woman. On demand.

HHSP 342 Ethical Issues Confronting the Geriatric Patient 3
Prereq.: PHIL 144 or HHSP 246, or permission of instructor. Examination of major ethical, social, and political issues arising in the course of caring for and

treating the elderly patient as well as those arising as a result of decision not to treat these patients. On demand.

HHSP 490 Health Care Management 3
Prereq.: Permission of instructor. Overview of the concepts and practices of management needed by health care clinicians to fulfill managerial responsibilities in a variety of health care settings.

HHSP 494 Introduction to Hospice Care 3
Prereq.: Permission of instructor. Introduction to the concepts and practices of hospice care. On demand.

HHSP 495 Clinical Implementation of Hospice Care 3
Prereq.: HHSP 494 or permission of instructor. Clinical course designed to introduce health care professionals to the delivery of hospice care. On demand.

HHSP 496 Professional Issues in Hospice Care 3
Prereq.: HHSP 494 or permission of instructor. Ethical and legal aspects of hospice care. On demand.

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. Study Area II

HIST 121 World Civilization I 3
World civilization to the 17th century. No credit for students who have received credit for HIST 142. Study Area II [I]

HIST 122 World Civilization II 3
World civilization from the 17th century. No credit given to those with credit for HIST 143. Study Area II [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. Study Area II [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. Study Area II [I]

HIST 231 Ancient Civilization 3
Cultures of ancient Near East and Mediterranean. Fall. Study Area II [I]

HIST 232 Medieval Civilization 3
European history and institutions from the fall of Rome to 1300. Spring. Study Area II [I]

HIST 261 History of American Life I 3
Political, economic, social and cultural development to 1865. Study Area II AMS

HIST 262 History of American Life II 3
Political, economic, social and cultural development since 1865. Study Area II

HIST 301 The Historical Imagination 3
Prereq.: A minimum of 6 credit hours in History. Students will practice history rather than simply study it in a passive sense. By honing research, analytical and writing skills students will be better prepared for upper level classes and work outside the university. History majors and minors only.

HIST 310 Communities in American History 3
Social history of the United States with emphasis on the specialized skills necessary for researching New England local history. Readings will survey public history opportunities in museums, archives, government agencies, historical firms, businesses and historical societies. May require off-campus research. Fall.

HIST 320 History and the Public 3
Examination of uses of history, its social and cultural messages impact on community life, and contested nature. Will read textbooks, visit war memorials, see historical films, examine artifacts, and visit local historic house museums. Irregular.

HIST 330 History of Women in the United States, 1620-1865 3
Survey of women in the United States from the colonial period through the Civil War, with special emphasis on how race, class, and ethnicity shaped women's experiences. Fall. AMS

HIST 331 History of Women in the United States, 1865-present 3
Survey of women in the United States from Reconstruction to the present with special emphasis on how race, class, and ethnicity shaped women's experiences. Spring.

HIST 335 Women, Marriage, and Family in Early Modern Europe 3
Impact of social, economic, and ideological change on gender roles and family structure in European society during the Renaissance, Reformation, and post-Reformation periods, 1400-1700. Spring. [I]

HIST 341 English History to 1715 3
Forces contributing to the growth of English civilization and development of Great Britain. Fall. [I]

HIST 342 English History since 1715 3
Continuation of HIST 341. Spring. [I]

HIST 343 Modern Ireland: 1690 - present 3
Introduction to political, social, and economic history of modern Ireland, with special focus on nationalism, the impact of the Great Famine, the achievement of independence, and the ongoing conflict in the north. Spring. [I]

HIST 344 History of Modern Germany 3
German history from 1871 to the present. Fall. (O) [I]

HIST 347 History of Russia I 3
History of Russia from the ninth century to 1861. Fall. [I]

HIST 348 History of Russia II 3
History of Russia from 1861 to the present. [I]

HIST 351 East Asia to 1800 3
Political, cultural, economic, and social history of East Asian countries. Fall. Study Area II [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. Spring. Study Area II [I]

HIST 356 History of East Central Europe since 1919 3
Social and political institutions of the Successor states in the Danubian area from 1919. Spring. (O) [I]

HIST 361 The West in United States History 3
Westward movement and its significance in American history. Fall.

HIST 369 African-American History 3
Survey of African-American life from the slave trade through the 1970s. Fall. (E) AMS

HIST 375 History of Africa to 1800 3
Examination of economic, social, and political developments in Africa to the end of the 18th century. Spring. Study Area II [I]

HIST 376 History of Africa since 1800 3
Examination of economic, social, and political developments in Africa from the end of the 18th century to the present. Spring. Study Area II [I]

HIST 377 History of Christianity I 3
Christianity from its origins to 1450 A.D. Jewish origins, literature, central doctrines, and institutional development. Consideration of its influence on secular life and institutions. Fall. (O) [I]

- HIST 378 History of Christianity II 3
Christianity from 1450 A.D. to present. Continuation of Christianity I. Spring. (O) [I]
- HIST 379 History of Poland: from the Piasts to Partition, 966-1795 3
Formerly HIST 479. The medieval Kingdom, the Polish Lithuanian Commonwealth, and the Partitions. Fall. (O) [I]
- HIST 380 Modern Poland 3
Formerly HIST 480. 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) [I]
- HIST 381 Latin American History to 1823 3
Social, economic, political, and cultural development of Latin American countries to 1823. Fall. (O) [I]
- HIST 382 Latin American History since 1823 3
Social, economic, political, and cultural development of Latin American countries since 1823. Spring. (O) [I]
- HIST 395 Topics in History 3
An intermediate course exploring specific areas of historical inquiry and research. Topics vary. May be repeated with different topics for a maximum of 6 credits. Irregular.
- HIST 410 Researching and Writing Local History 3
Prereq.: HIST 301 or 310 or permission of instructor. Utilization and practice of public history to research and write Connecticut and New England local history. May require off-campus research. Spring.
- HIST 420 Imperialism 3
Prereq.: HIST 301 or 310 or permission of instructor. Explores the nature and experience of imperialism in a variety of countries and a number of time periods. Irregular. [I]
- HIST 423 Colonial Period of American History 3
Prereq.: HIST 261 or equivalent, HIST 301 or 310, or permission of instructor. Development of America to 1763. Fall. AMS
- HIST 424 Establishment of a New Nation 3
Prereq.: HIST 261 or equivalent, HIST 301 or 310, or permission of instructor. Establishment of the United States of America from 1763 to 1800. Spring.
- HIST 425 Era of National Development 3
Prereq.: HIST 301 or 310 or permission of instructor. Political, social, and economic development from 1800 to 1850, with special emphasis on the development of party systems. Fall. AMS
- HIST 426 The United States, 1850-1896 3
Prereq.: HIST 301 or 310 or permission of instructor. The U.S. from the Compromise of 1850 to Plessy v. Ferguson (1896): Civil War, Reconstruction, and the shift of public concern to problems of industrialization, urbanization, and immigration. Spring. AMS
- HIST 427 The United States, 1890-1933 3
Prereq.: HIST 301 or 310 or permission of instructor. Industrial growth, immigration, political reform, the Great Depression, and the rise of the United States as a world power. Fall. AMS
- HIST 428 The United States since 1933 3
Prereq.: HIST 301 or 310 or permission of instructor. Major political, social, economic, cultural, and diplomatic developments since 1933. Spring. AMS
- HIST 429 Women and Reform in American Society, 1870-1920 3
Prereq.: HIST 301 or 310 or permission of instructor. Involvement of women in suffrage reform, temperance, immigration reform, the social hygiene movement, the crusade against prostitution and white slavery, birth control, socialism, and problems of gender between 1870 and 1920 will be considered. Spring. (O)
- HIST 431 Ancient Northeast Africa 3
Prereq.: HIST 301 or 310 or permission of instructor. Aspects of the history and legacies of ancient northeast Africa with focus upon Nubia, Egypt, and Aksum. Irregular. [I]
- HIST 433 History of Ancient Greece 3
Prereq.: HIST 301 or 310 or permission of instructor. Greek institutions from the Mycenaean period to the accession of Constantine. Fall. [I]
- HIST 434 History of Ancient Rome 3
Prereq.: HIST 301 or 310 or permission of instructor. Roman institutions from the regal period to the reign of Constantine. Spring. [I]
- HIST 435 History of Later Medieval Europe 3
Prereq.: HIST 301 or 310 or permission of instructor. The Late Roman empire to the 11th century. Spring. (E) [I]
- HIST 436 History of Later Medieval Europe 3
Prereq.: HIST 301 or 310 or permission of instructor. The Crusades to the Great Schism. Spring. (O) [I]
- HIST 441 Renaissance and Reformation 3
Prereq.: HIST 301 or 310 or permission of instructor. History of Europe during the Age of Transition and the Era of the Religious Wars, 1300-1648. Fall. (E) [I]
- HIST 442 European History, 1650-1815 3
Prereq.: HIST 301 or 310 or permission of instructor. Social, economic, political, and cultural forces of the period in relation to formation of modern society and government. Spring. (E) [I]
- HIST 443 European History, 1815-1918 3
Prereq.: HIST 301 or 310 or permission of instructor. Political, economic, and social institutions in relation to rise of liberalism, nationalism, socialism, and imperialism. Fall. [I]
- HIST 444 European History, 1918 to Present 3
Prereq.: HIST 301 or 310 or permission of instructor. National and international problems of European states. Spring. [I]
- HIST 445 European Intellectual History, 1750-1870 3
Prereq.: HIST 301 or 310 or permission of instructor. Main currents of European thought and culture from 1750 to 1870. Fall. (E) [I]
- HIST 446 European Intellectual History, 1870-Present 3
Prereq.: HIST 301 or 310 or permission of instructor. Main currents of European thought and culture from 1870 to the present. Spring. (E) [I]
- HIST 447 History of the Soviet Union 3
Prereq.: HIST 301 or 310 or permission of instructor. Study of the rise and fall of Soviet Communism, 1917-1991. Irregular. [I]
- HIST 448 Stalin and Stalinism 3
Prereq.: HIST 301 or 310 or permission of instructor. Historical study of Stalin and Stalinism stressing multi-disciplinary perspectives, considered in the light of the collapse of the Soviet Union. Irregular. [I]
- HIST 453 History of Modern China 3
Prereq.: HIST 301 or 310 or permission of instructor. China during the late Ch'ing, Republican and Communist periods. Fall. [I]
- HIST 454 History of Modern Japan 3
Prereq.: HIST 301 or 310 or permission of instructor. Japan during the 19th and 20th centuries. Spring. [I]
- HIST 458 United States Sectionalism: the Clash of Cultures 3
Prereq.: HIST 301 or 310 or permission of instructor. Clash of Northern and Southern culture over the issues of slavery from 1787 to 1861. Emphasis on the attempt to quell sectional disputes through political compromise, the rise of abolitionism, and the creation of a Slave Power. Spring.

- HIST 460 African Enslavement in the Americas 3
Prereq.: HIST 301 or 310 or permission of instructor. Comparative history of slavery in Latin America, the Caribbean, and the United States from 1492-1888. Fall. (O) [I]
- HIST 463 Constitutional History of the United States to 1900 3
Prereq.: HIST 301 or 310 or permission of instructor. Study of nation's fundamental law as influenced by political, economic, and social forces. Fall. (E)
- HIST 465 Economic History of the United States 3
Prereq.: HIST 301 or 310 or permission of instructor. American economy from its agricultural beginnings through stages of its commercial, industrial, and financial growth. AMS
- HIST 466 History of American Technology 3
Prereq.: HIST 301 or 310 or permission of instructor. 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 in the larger society. Fall.
- HIST 469 African Americans in the 20th-Century 3
Prereq.: HIST 301 or 310 or permission of instructor. Political, economic, social, and cultural developments in Black America since 1900. Fall. (O) AMS
- HIST 472 Modern Middle East 3
Prereq.: HIST 301 or 310 or permission of instructor. Historical developments in the 20th century with a special emphasis on political, social, and economic conflicts. Fall. [I]
- HIST 473 History of Judaism 3
Prereq.: HIST 301 or 310 or permission of instructor. Analysis of major themes in the historical development of Judaism from ancient times to the present. Spring. [I]
- HIST 474 History of the Arab-Israeli Conflict 3
Prereq.: HIST 301 or 310 or permission of instructor. History of the Arab-Israeli conflict from the time of Israel's creation as a modern nation-state until the present. Spring. [I]
- HIST 476 African History through Film 3
Prereq.: HIST 301 or 310 or permission of instructor. Africa's past and present are viewed through a series of movies and intensive scholarly discussion of selected topics and themes. Readings are derived from current scholarly research on the various issues discussed. Irregular. [I]
- HIST 479 History of Poland: from the Piasts to Partition, 966-1795 3
Prereq.: HIST 301 or 310 or permission of instructor. The medieval Kingdom, the Polish Lithuanian Commonwealth, and the Partitions. Fall. (O) [I]
- HIST 480 Modern Poland 3
Prereq.: HIST 301 or 310 or permission of instructor. 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) [I]
- HIST 481 The Jews of Poland 3
Prereq.: HIST 301 or 310 or permission of instructor. Topics include immigration and settlement, community development and rights and privileges before 1795, modernization, nationalism, anti-Semitism, independence, Polish-Jewish relations during the holocaust, exodus and marginalization in communist Poland, and the new Polish Jews. Fall. (E) [I]
- HIST 482 The Polish-American Immigrant and Ethnic Community 3
Prereq.: HIST 301 or 310 or permission of instructor. Topics include immigration and settlement in the United States, organizational infrastructure, heroes and myths, homeland politics and national consciousness, labor, class, ethnicity, cultural assimilation and political integration, and stereotypes and ethnic identity. Spring. (O) [I]
- HIST 483 History of Inter-American Relations 3
Prereq.: HIST 301 or 310 or permission of instructor. Inter-American relations from inception of the Monroe Doctrine to the present. Fall. (E) [I]
- HIST 484 History of Mexico 3
Prereq.: HIST 301 or 310 or permission of instructor. Mexico from high culture of the Mayans through conquest, colonial period, independence, and national development. Spring. (E) [I]
- HIST 488 American Business History 3
Prereq.: HIST 301 or 310 or permission of instructor. Historical examination of the forms and strategies employed by business in modern America. Spring. (O)
- HIST 489 American Labor History 3
Prereq.: HIST 301 or 310 or permission of instructor. Historical examination of the response of American Labor to technological change and the development of a formal, institutionalized labor movement. Spring. (E)
- HIST 490 Senior Seminar 3
Special Conditions: Undergraduate history majors only. At least 24 history credits, including HIST 301 or 310, and 6 credits at 400 level. Senior seminar.
- HIST 493 Directed Readings in History 3
Prereq.: HIST 301 or 310 and 6 credits in 400-level history courses; or permission of Department Chair. 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. May be repeated once. On demand.
- HIST 497 Topics in History 3
Prereq.: HIST 301 or 310 or permission of instructor. 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.
- HIST 498 Historical Field Studies Abroad 3
Prereq.: Permission of instructor. Classroom and study abroad exploring special historical topics taken from any world region. Normally involves travel outside the United States. Part of course taught abroad; can be taken two times with different topics. Irregular. [I]

HONORS

- HON 110 Western Culture I 4
Prereq.: Honors Program participant. Introduction to western culture including its foundation in the ancient world. Spring. Study Area I
- HON 120 Science and Society I 4
Prereq.: Honors Program participant. Satisfies non-laboratory requirement of Study Area IV. Selected topics from the natural sciences and their relation to society. Spring. Study Area IV
- HON 130 World Cultures I 4
Prereq.: Honors Program participant. Introduction to the study of world cultures. Fall. Study Area II [I]
- HON 140 Writing and Research I 4
Prereq.: Honors Program participant. Principles of critical thinking and persuasive writing, with applications to written and oral presentations. Fall. Skill Area I
- HON 210 Western Culture II: Topics in Western Culture 4
Prereq.: Honors Program participant. Selected topics in western culture including discussion of historical contexts. Fall. Study Area I
- HON 220 Science and Society II: Social Sciences and Society 4
Prereq.: Honors Program participant. Selected topics from the social sciences and their relation to society. Spring. Study Area III
- HON 230 World Cultures II: Topics in World Cultures 4
Prereq.: Honors Program participant. Selected topics from world cultures. Fall. Study Area II [I]
- HON 250 Western/World Culture III: Comparative Topics 4
Prereq.: Member of Honors Program participant. Selected topics in comparative cultures from western and world perspectives. Spring. Study Area III [I]

HON 440 Writing and Research II 1
Prereq.: Honors Program participant or permission of program director.
Methodology of thesis writing and presentation of thesis proposal. Fall. Study Area I

HON 441 Writing and Research III 2
Prereq.: Honors Program participant or permission of program director.
Independent research developed from previous Honors Program courses. Spring. Skill Area I

HON 442 Writing and Research IV: Thesis Workshop 1
Prereq.: Member of Honors Program or permission of program director, and HON 441 (taken concurrently). Problems and solutions in thesis writing. Spring. Study Area II

HUMANITIES

HUM 100 Search in the Humanities 3
Introduction to the intellectual processes and value systems in the humanities. Titles and themes may vary from section to section. Study Area I

HUM 250 Topics in European Literature 3
Formerly HUM 150. Prereq.: ENG 110 A literary figure, movement or theme in European Literature studied in translation. Topic may vary from semester to semester. On demand. Study Area I [I] [L]

HUM 290 Studies in Modern Civilization 3 or 6
Insights into the culture 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 will acquaint students with the civilizations of other countries through supervised travel abroad. Attention to the special needs and interests of participants. On demand. [I]

INDUSTRIAL TECHNOLOGY

IT 190 Introduction to Quality Assurance 3
Overview of the tools and techniques required in contemporary quality systems. Principles of world-class quality assurance, team building, change management, problem solving, and continuous improvement will be presented. Fall.

IT 290 Statistical Process Control and Metrology 3
Introduction to metrology and gauge R and R. Study of statistical process control, capability, sampling plans and their application to inspection, quality control, and improvement. 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.

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 390 Auditing Quality Systems Standards 3
ISO 9000, QS 9000, MIL standards and the Malcom Baldrige quality system standards will be examined and audited. Auditing techniques will be presented. Fall.

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. On demand.

IT 401 Industrial Internship 3 to 6
Prereq.: Permission of department chair. Provides students with a supervised opportunity to work in an industrial environment directly related to their program. Written technical reports are required. Applications obtained from the department chair. Graded on a pass-fail basis.

IT 402 Topics in Technology 1 to 3
Prereq.: Permission of the department chair. 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. Course may be repeated for a maximum of 6 credits for different topics.

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.

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. Fall.

IT 412 Principles of Occupational Safety 3
Development of internal policies of a plant in an accident prevention program for its employees. Topics include safety training, job safety analysis, accident investigation, safety promotion, and 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. Spring.

IT 415 Fire Protection and Prevention 3
Measures related to safeguarding human life and preservation of property in prevention, detection, extinguishing fires. Spring.

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. Spring.

IT 432 Worker/Supervisor Relations 3
Prereq.: IT 362 or MGT 295 or permission of instructor. To develop the role of worker-supervisor relationships in manufacturing industries by covering such topics as productivity, supervision within contract guides, union/non-union manufacturing conflicts, Method/Time Study implementation. Spring.

IT 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. Spring.

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. Spring.

IT 464 Continuous Process Improvement 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. Fall.

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. [c]

IT 490 Quality by Design 3
Planning techniques of Failure Mode and Effects Analysis (FMEA), Quality Function Deployment (QFD), and Design of Experiments (DOE) will be presented. Spring.

INTEGRATED SCIENCE AND MATHEMATICS

ISM 211 Biological and Physical Sciences Integrated with Mathematics 3
Prereq.: MATH 113 Taken concurrently with ISM 213. Inquiry approach to learning, focusing on connections between biological sciences, physical sciences, and mathematics. Development of skills in data interpretation and experimental design applicable to teaching in grades pre-K-8. Two hours of lecture and two hours of laboratory per week. Study Area IV [c]

ISM 213 Math Integrated with Biological and Physical Sciences 3
Prereq.: MATH 113. Taken concurrently with ISM 211. Inquiry approach to learning, focusing on mathematics and its application to biological and physical sciences. Development of skills in data interpretation and experimental design applicable to teaching in grades pre-K-8. Two hours of lecture and two hours of laboratory per week. Skill Area II [c]

INTENSIVE ENGLISH LANGUAGE PROGRAM

IELP 101 Intensive English Language and American Culture I: Listening and Speaking 0
Eight-week highly interactive program which includes 20 hours of classroom instruction per week of Level I English language listening and speaking. Student activities and several field trips are also included.

IELP 102 Intensive English Language and American Culture I: Reading and Writing 0
Eight-week highly interactive program which includes 20 hours of classroom instruction per week of Level I English language reading and writing. Student activities and several field trips are also included.

IELP 199 Transitions 3
Prereq.: Acceptable IELP placement test results, minimum score of 475 on institutional TOEFL exam; or permission of instructor. Ten hour per week integrated language skills course for advanced ESL students. Emphasis on expository and argument writing, academic reading skills, focused discussion, formal debate, and familiarization with methods of research documentation.

IELP 201 Intensive English Lang and American Culture II: Listening and Speaking 0
Eight-week highly interactive program which includes 20 hours of classroom instruction per week of Level II English language listening and speaking. Student activities and several field trips are also included.

IELP 202 Intensive English Language and American Culture II: Reading and Writing 0
Eight-week highly interactive program which includes 20 hours of classroom instruction per week of Level II English language reading and writing. Student activities and several field trips are also included.

IELP 301 Intensive English Language and American Culture III: Listening and Speaking 0
Eight-week highly interactive program which includes 20 hours of classroom instruction per week of Level III English language listening and speaking. Student activities and several field trips are also included.

IELP 302 Intensive English Language and American Culture III: Reading and Writing 0
Eight-week highly interactive program which includes 20 hours of classroom instruction per week of Level III English language reading and writing. Student activities and several field trips are also included.

IELP 401 Intensive English Language and American Culture IV: Listening and Speaking 0
Eight-week highly interactive program which includes 20 hours of classroom instruction per week of Level IV English language listening and speaking. Student activities and several field trips are also included.

IELP 402 Intensive English Language and American Culture IV: Reading and Writing 0
Eight-week highly interactive program which includes 20 hours of classroom instruction per week of Level IV English language reading and writing. Student activities and several field trips are also included.

IELP 451 Intensive English Language and American Culture V: Listening and Speaking 0
Prereq.: IELP 401 or permission of instructor. Eight-week highly interactive class which includes 10 hours of classroom instruction per week of Level V English language listening and speaking. Student activities and several field trips are also included.

IELP 452 Intensive English Language and American Culture V: Reading and Writing 0
Prereq.: IELP 402 or permission of instructor. Eight-week highly interactive class which includes 10 hours of classroom instruction per week of Level V English language reading and writing. Student activities and several field trips are also included.

IELP 460 TOEFL Preparation 0
Eight hours per week of TOEFL skills and strategies. Practice TOEFL exams are administered weekly.

INTERDISCIPLINARY

ID 102 Master Student 1
Prereq.: Freshman standing or permission of instructor. Techniques for taking notes, reading, preparing for and taking tests, using a university library, task management, awareness and application of learning styles; developing group supports and positive self concepts; the nature of relationships, communications, selected social issues. Graded on pass/fail basis. Fall.

INTERDISCIPLINARY SCIENCES

ISCI 104 Science Connections 3
Interdisciplinary emphasis on science in the context of everyday experience. Promotes general scientific literacy and skills relevant to scientific inquiry. For

non-science majors. Two lectures and one two-hour laboratory per week. Fall. Study Area IV

INTERNATIONAL BUSINESS

Note: Enrollment in 300- and 400-level Business courses requires admission to the School of Business or permission of the Department Chair.

IB 491 Special Topics in International Business 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. [I]

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 business people. On-site seminars will be included. [I]

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. [I]

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. Study Area II [I]

IS 226 Intercultural Sensitivity 3
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. Study Area III [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.

IS 240 Caribbean Cultural Patterns 3
Prereq.: Permission of instructor or program coordinator when course is offered in Spanish. 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. Study Area II [I]

IS 245 Puerto Rico 3
Prereq.: Permission of instructor or program coordinator when course is offered in Spanish. 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. Study Area II [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. On demand.

IS 475 International Studies Senior Project 3
Prereq.: Senior standing and declared IS major. Independent project developed by the student in consultation with International Studies advisor. 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 3 or 6
Course taught abroad. May be repeated for a maximum of 6 credits. [I]

IS 497 Seminar 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. [I]

INTERNET AND MULTIMEDIA STUDIES

IMS 110 Introduction to Cyberspace 3
Social, economic, and political imperatives of the Information Age. Examines the personal and societal effects and value implications of cyberspace from the perspective of a number of social sciences. Fall. Study Area II

IMS 210 Multimedia Computing 3
Formerly CYS 210. Use of authoring environment in the creation of multimedia applications which combine text, drawn objects, existing graphics, audio and video clips, simple animations, and hyperlinks for use both locally and online. For advanced applications, a simple scripting language will be employed. Hands on experience stressed. Computer programming experience not necessary. Spring. Skill Area IV [c]

IMS 480 Senior Project 3
Prereq.: IMS 110, 210, and permission of instructor. Work with a faculty member from any department interested in either developing courseware, a multimedia project, a Web site application, or similar project. On demand. [c]

IMS 490 Independent Study 3
Prereq.: Permission of instructor. Development of an extended multimedia or Internet application, or a research project on some of the social science, humanities, or value implications of cyberspace, under the guidance of a faculty advisor. On demand. [c]

ITALIAN

ITAL 111 Elementary Italian I 3
Open only to students with one year or less of high school study. No credit for students who have received credits for ITAL 118. Fundamentals of Italian pronunciation and grammar taught from the beginning by the direct method. Students participate in conversation. Skill Area III

ITAL 112 Elementary Italian II 3
Prereq.: ITAL 111 or equivalent (normally, two years high school study). No credit given to students with previous credit for more advanced course work in Italian or who have received credit for ITAL 118. Study of spoken and written Italian is continued. Further practice in conversation, pronunciation and analysis of Italian language structure. Skill Area III [I]

ITAL 118 Intensive Elementary Italian 6
Open only to students with one year or less of Italian at the high school level. Only three credits may be applied toward the International requirement. No credit for students who have received credit for ITAL 111 and/or ITAL 112. Intensive language course designed to bring students to intermediate skills in one semester. Six classroom hours per week. Skill Area III [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 course work in Italian except by permission of the department chair. Fall. Skill Area III [I]

ITAL 126 Intermediate Italian II 3
Prereq.: ITAL 125 or equivalent. Continuation of ITAL 125. No credit will be given to students with previous credit for more advanced course work in Italian except by permission of the department chair. Spring. Skill Area III [I]

- ITAL 190 Italian for Italian Speakers 3
Prereq.: Permission of instructor. Development of diction, reading, writing skills and grammar of standard Italian compared to dialect variations. Irregular. Skill Area III [I]
- ITAL 225 Italian Composition and Diction 3
Prereq.: ITAL 126 or permission of instructor. Course to train students in self-expression by means of frequent compositions in Italian, in addition to systematic drills in pronunciation and intonation. Fall. Skill Area III [I]
- ITAL 226 Italian Structure and Idiom 3
Prereq.: ITAL 225 or equivalent preparation. Course designed to develop correct idiomatic usage and fluency of expression. Spring. Skill Area III [I]
- ITAL 260 Introduction to Business Italian 3
Prereq.: ITAL 126 or Italian placement exam. Development of oral and written skills needed for bilingual work situations encountered in business, travel and government agencies. Includes a study of the cultural attitudes of Italian business people. Irregular. Skill Area III [I]
- ITAL 304 Literary Masterpieces to 1700 3
Prereq.: ITAL 226 (may be taken concurrently) or permission of instructor. Taught in Italian. Introduction to major works in Italian literature from the Middle Ages to 1700. Fall. (O) Study Area I [I] [L]
- ITAL 305 Literary Masterpieces Since 1700 3
Prereq.: ITAL 226 (may be taken concurrently) or permission of instructor. Taught in Italian. Introduction to major works in Italian literature since 1700. Spring. Study Area I [I] [L]
- 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. Study Area II [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. Study Area II [I]
- ITAL 335 Advanced Composition and Diction 3
Prereq.: ITAL 226. Additional practice in written and oral expression. On demand. [I]
- ITAL 336 Advanced Structure and Idiom 3
Prereq.: ITAL 335. Additional practice in idiomatic usage and verbal fluency. On demand. [I]
- ITAL 441 Advanced Oral Practice 3
Prereq.: Permission of instructor. Taught in Italian. Development of fluency in oral self-expression. Speech analysis to improve pronunciation and intonation. On demand. [I]
- ITAL 460 Advanced Written Italian 3
Prereq.: ITAL 335 or equivalent. 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 demand. [I]
- ITAL 470 14th-Century Italian Literature 3
Prereq.: ITAL 304 or permission of instructor. Taught in Italian. Study of the period with special emphasis on Dante, Petrarch, Boccaccio. On demand. [I]
- ITAL 476 16th-Century Italian Literature 3
Prereq.: ITAL 304 or permission of instructor. Taught in Italian. Major works of Italian renaissance. On demand. [I]
- ITAL 488 Italian Life and Culture 3
Prereq.: Permission of instructor. Discussion of contemporary Italian society, traditions and values. On demand. [I]

JAPANESE

- JAPN 111 Elementary Japanese I 3
Open only to students with one year or less of high school study. Basic sounds and structure patterns of Japanese are established through a direct aural-lingual approach. Skill Area III
- JAPN 112 Elementary Japanese II 3
Prereq.: JAPN 111 or equivalent (normally, two years high school study). No credit given to students with previous credit for more advanced course work in Japanese except by permission of the department chair. A continuation of JAPN 111. Spring. Skill Area III [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. Skill Area III [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. Skill Area III [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. Skill Area III [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. Skill Area III [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
Open only to students with one year or less of high school study. Study of the elements of Latin grammar. Fall. Skill Area III
- LAT 112 Elementary Latin II 3
Prereq.: LAT 111 or equivalent (normally, two years high school study). No credit given to students with previous credit for more advanced course work in Latin except by permission of the department chair. Continuation of LAT 111; development of reading skills. Spring. Skill Area III

LAW

Note: See also the Pre-Law Program on page 92, as well as COMM 360, HIST 463, PHIL 349, PE 412, PS 235, PS 241, PS 331, PS 332, PS 338, PS 339 and PS 447.

- LAW 250 Legal Environment of Business 3
Prereq.: 30 credits completed before beginning course work. Introduction to the legal environment of organizations, including principles that affect management, marketing, accounting, finance and technology. Included is a review of social responsibility of business, international legal environment, administrative law, torts, contracts, agency, business organizations, and intellectual property.
- LAW 400 Advanced Business Law 3
Prereq.: LAW 250 (C- or higher). Advanced legal principles pertaining to commercial transactions and business organizations. Topics include contracts, sales,

negotiable instruments, partnerships and corporations, accountant's legal liability, and bankruptcy.

LIBRARY SCIENCE

LSC 150 Library Resources and Skills 1
Study of the choice and use of the correct information resources available electronically and in print. Emphasis is placed on understanding subject databases that facilitate undergraduate research. Other topics include searching the World Wide Web and evaluating its content. Skill Area IV

LINGUISTICS

LING 200 Introduction to Linguistics 3
Formerly ENG 200. The structure and system of language with English as the subject of analysis: history, phonology, morphology, syntax, semantics, usage. Study Area III

LING 230 The Study of Language 3
Formerly ENG 230. General concepts of language as it evolved in thought, society, literature, and scientific analysis, with emphasis on universal characteristics and relevance to contemporary English. Study Area III

LING 300 Language Acquisition 3
Formerly ENG 300. Prereq.: ENG 110, LING 200. Study of how we acquire our first language; child language, regional and social dialect, register, style, and idiolect.

LING 312 Introduction to Syntax 3
Formerly ENG 312. Prereq.: LING 200 (formerly ENG 200). Introduction to basic principles of syntactic theory within contemporary grammatical frameworks and how they generate grammatical sentences. Construction of sound syntactic arguments in linguistic theory. Emphasis on English syntax. Irregular. On demand.

LING 313 Introduction to Phonetics and Phonology 3
Formerly ENG 313. Prereq.: LING 200 (formerly ENG 200). Articulation, acoustics, and perception of speech sounds in human language. Patterning and representation of sounds in phonological systems. Phonological processes. Use of the computerized Speech Laboratory. Irregular.

LING 400 Linguistic Analysis 3
Formerly ENG 400. Intensive analysis (syntactic, morphological, phonological) of selected data from English and other languages. Particular emphasis on developing analytical skills.

LING 430 Studies in Linguistics and the English Language 3
Formerly ENG 430. Selected topics in linguistics. Students may take this course under different topics for a maximum of 6 credits. Irregular.

LING 431 The History of the English Language 3
Formerly ENG 431. History, growth, and structure of the English language. Irregular.

LING 433 Introduction to Computational Linguistics 3
Formerly ENG 433. Prereq.: LING 312 and 313 (formerly ENG 312 and ENG 313). Investigation of computational models of natural language processing for both parsing and production of lexical, phonological, and syntactic units, including text to speech. The relationship between linguistic theories and the algorithms that can implement them. Irregular.

LING 434 Speech and Natural Languages Processing 3
Formerly ENG 434. Prereq.: LING 312 and 313 (formerly ENG 312 and ENG 313). Exploration of techniques and methods of human-computer dialogues with primary focus on how computers recognize, parse, and produce syntactic, semantic, pragmatic, and other discourse-theoretic aspects of human languages such as English. Irregular.

LING 496 TESOL Methods 3
Formerly ENG 496. 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 in the TESOL classroom. Fall.

LING 497 Second Language Acquisition 3
Formerly ENG 497. Major theories of language acquisition and their potential application to language learning. The theoretical bases of second language instruction. Spring.

MANAGEMENT

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

MGT 295 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 295 (C- or higher). Study of the management of human resources. Topics include equal employment opportunity, job analysis, human resource planning, recruitment, selection, training and performance appraisal, compensation, labor/management relations, and related topics.

MGT 321 International Management 3
Prereq.: MGT 295. 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 295. 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 295. 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 295. 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 Labor/Management Relations 3
Prereq.: MGT 295 (C- or higher). Study of issues related to labor-management relations. Topics include collective bargaining, labor-management contracts, contract negotiation and administration, grievance handling, employee discipline, and related topics. Methods for measuring staffing-related criteria are included. Spring.

MGT 426 Business Organizational Behavior 3
Prereq.: MGT 295. 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, STAT 201 with grades of C- or higher. Study of compensation theory and practice. Topics include types of compensation and benefits, job

analysis, job evaluation, pay structures, wage surveys, pay-for-performance, and methods for administering compensation and benefits.

MGT 448 Integrative Business Strategy and Policy 3
Formerly MGT 450. Prereq.: FIN 295, MGT 295, and MKT 295 with grades of C- or higher and senior standing. 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 among the various business functions. Methodology is real-world oriented through use of simulations, cases, or field work.

MGT 450 Integrative Business Strategy and Policy 3
Prereq.: FIN 295, MGT 295, and MKT 295 with grades of C- or higher and senior standing. 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 among the various business functions. Methodology is real-world oriented through use of simulations, cases, or field work.

MGT 460 Staffing 3
Prereq.: MGT 305 (C- or higher). Study of issues related to the staffing organizations. Topics include job analysis, human resource planning, recruitment, selection, equal employment opportunity, and related topics. Methods of measuring staffing-related criteria are included. Spring.

MGT 462 International Human Resource Management 3
Prereq.: MGT 305 (C- or higher). Study of human resource issues for multinational organizations. Topics include recruitment, selection, performance, training, career planning, compensation, labor relations, and related topics for expatriates and multicultural workforces. Fall.

MGT 470 Organizing and Managing for Quality 3
Prereq.: MGT 295. 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 471 Managing Knowledge for Performance 3
Prereq.: MGT 295; for graduate students, permission of chair (additional work required). Explores how people in organizations manage processes for creating, sharing, and evaluating knowledge used to improve and innovate business performance. Covers nature of knowledge, communities of practice, intellectual capital, knowledge life cycles, and executing knowledge projects. On demand.

MGT 473 Organizing and Managing for Innovation 3
Prereq.: MGT 345 and 348 with grades of C- or higher; or permission of instructor. Explores contemporary approaches for releasing employee, supplier and customer creativity to constantly innovate what and how an organization produces its products and services. Irregular.

MGT 480 Strategic Management 3
Formerly MGT 449. Prereq.: AC 212 and FIN 295 and Law 250 and MC 207 and MIS 201 and MGT 495 and MKT 295 with grades of C- or higher; and senior standing. Examines the role of a company's executive team in defining its long-term competitive direction. Focuses on the strategic management process of formulating and implementing the organization's mission, goals, strategies, and plans.

MGT 481 Management of Not-For-Profit Organizations 3
Prereq.: MGT 295. 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.: Permission of instructor. Selected topics in management, organization theory, and human resource management. Course content will vary from semester to semester. May be repeated with different topics for a maximum of 6 credits. Irregular.

MGT 494 Entrepreneurship 3
Prereq.: FIN 295 (C- or higher); 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 well-conceived business plan.

MGT 496 Practicum in Management and Organization 3
Prereq.: Permission of instructor and meet criteria dependent upon nature of the specific project(s) and permission of the chair of the Management and Organization Department. Students work on a real-world project under the direct supervision of a faculty advisor. Projects may be sponsored by a host organization. Student performance is monitored and evaluated in relation to conditions set forth in an approved project plan. May be taken for a maximum of 6 credits. On demand.

MGT 497 Internship/Independent Study in Management and Organization 3
Prereq.: Approved Special Project Request Form. Applications may be obtained from the chair of the Management and Organization Department. 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 advisor who has approved the study project. Activity may be either research oriented or an internship. May be repeated for a maximum of 6 credits.

MGT 498 Management Seminar 3
Prereq.: Senior standing and 12 credits in management or permission of instructor. 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 management literature and research. Course content will vary from semester to semester.

MANAGEMENT INFORMATION SYSTEMS

Note: Enrollment in upper-division Business courses requires admission to the School of Business or permission of the Department Chair.

MIS 201 Introduction to Management Information Systems 3
The course provides the background necessary for understanding the role of information systems in organizations and for using computer tools and technology in solving business problems. Topics include organizational foundations of information systems, technical foundations of information systems, building information systems, and the management of information. Not open to CS majors. [c]

MIS 210 Application Program Development I 3
Prereq.: MIS 201 (C- or higher). 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 220 Contemporary Business Applications Development 3
Prereq.: MIS 201 (C- or higher). Introduction to contemporary approaches to application development in a business environment. Emphasis on structured program design, development, testing, implementation, and documentation of business applications.

MIS 305 Implementing an E-Business Environment 3
Prereq.: MIS 201 (C- or higher); or permission of department chair. Focuses on conducting e-business activities, including the role of the Internet, intranets, extranets, and other business applications. Emphasis on web-page design and implementation, web-server management, and security issues. [c]

MIS 311 Application Program Development II 3
Prereq.: MIS 210 (C- or higher). A continuation of MIS 210. An introduction to computer programming in a business environment. Emphasis on the fundamentals of structured programming 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 400 Business Decision Analysis Using Knowledge Bases 3
Prereq.: MIS 220 or 305 (C- or higher), or permission of instructor. 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). [c]

MIS 410 Distributed Processing--Networks and Telecommunications 3
Prereq.: MIS 220 and 305 with grades of C- or higher; or permission of instructor. Impact of distributed systems on the business enterprise emphasized. Features of centralized, decentralized, and distributed systems; and technology implications as they relate to analysis, design, and development of distributed processing systems will be examined. [c]

MIS 415 Database Program Development 3
Prereq.: MIS 220 and 305 with grades of C- or higher; or permission of instructor. 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 of a major database project. [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. May be repeated under a different topic to a maximum of 6 credits. Irregular. [c]

MIS 461 Structured Systems Analysis and Design in MIS 3
Prereq.: Completion of all other MIS core courses or permission of MIS chair. Capstone experience within MIS. Development of business application systems using structured and object-oriented analysis and design. Use and evaluation of modeling techniques and CASE tools. Includes information systems architecture, enterprise modeling, project management, and ethical issues. [c]

MIS 494 Independent Study in Management Information Systems 3 to 6
Prereq.: Senior standing. Special study or research projects. Progress and performance are monitored and evaluated by a qualified MIS faculty advisor. May be repeated with different topics for a maximum of 6 credits. On demand. [c]

MIS 496 Practicum in Management Information Systems 3
Prereq.: Permission of department chair. Students work on a real-world project under the direct supervision of a faculty advisor. Projects may be sponsored by a host organization. Student performance is monitored and evaluated in relation to conditions set forth in an approved Special Project Request Form. May be repeated for a maximum of 6 credits. On demand.

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]

MANAGERIAL COMMUNICATION

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.

MANUFACTURING TECHNOLOGY

MFG 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.

MFG 121 Technical Drafting and CAD 3
Prereq.: CET 113. Introduction to geometric construction, 3D modeling, orthographic projection, sectional and auxiliary views, dimensioning/tolerancing, and pictorials. Emphasis on the use of CAD. Technical drafting equipment and sketching are used to reinforce drawing techniques. [c]

MFG 216 Manufacturing Processes 3
Prereq.: MFG 118 or ET 150, or permission of instructor. Manufacturing principles for material removal, forming, joining, and casting. Applications of machine tool setup and operation, feeds and speeds, principles of cutting tools, welding, and foundry. [c]

MFG 226 Principles of Computer Numerical Control 3
Formerly MFG 416. Prereq.: ET 260. Principles essential for computer numerical control part programming and machine tool operation. Laboratory experiences include word address programming, computer-aided programming, and CNC machining tool setup and operation. Spring.

MFG 236 Tool Design 3
Formerly MFG 446. Prereq.: ET 260. Introductory study of and experiences in the design and construction of custom tooling for manufacturing. Fall.

MFG 316 Metals Machining 3
Prereq.: MFG 216. Study of and experiences in techniques of machining, precision measurement, and heat treatment of metallic materials. [c]

MFG 321 Computer-Aided Drafting 3
Prereq.: GRT 112 or MFG 121 or permission of instructor. Laboratory-based instruction to the utilization of the computers in preparing architectural, civil, mechanical, electrical, piping, and pictorial drawings. [c]

MFG 366 Manufacturing Supply Chain Strategy 3
Prereq.: MGT 295. Overview of emerging trends in managing the manufacturing supply and value chains. Strategies, tools and techniques for production, purchasing, inventory control, customer service and distribution. Fall.

MFG 376 e-Manufacturing 3
Prereq.: MFG 226. The use of emerging computer and Internet-based technology in manufacturing. Integration of production functions into the plant information technology infrastructure using Internet-enabled collaboration, data acquisition, controller access, machine diagnostics and cell status access. Fall.

MFG 436 Advanced Computer Numerical Control 3
Prereq.: MFG 416 or permission of instructor. Investigation of advanced CNC programming and machining. Laboratory experiences include MacroB and parametric word address programming, 3-D and multi-axis CAM programming, and part machining using CNC mills, lathes, and wire EDM machine tools. Spring. [c]

MFG 496 Lean Manufacturing 3
Prereq.: MFG 226 and MFG 236. Principles of lean manufacturing methodologies. Topics include production flow analysis, pull systems, work groups, waste elimination, visual factory, error proofing, quick changeover, cycle time reduction and change management. Spring.

MARKETING

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

- MKT 295 Fundamentals of Marketing 3
 Overview of the multifaceted discipline and practice of marketing, emphasizing market segmentation and exchange. Consideration of consumer and industrial markets, product and service marketing, pricing and promotion strategies, and the role of distribution channels. [c]
- MKT 305 Consumer Behavior 3
 Prereq.: MKT 295 (C- or higher). 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 Marketing Communication 3
 Prereq.: MKT 295 (C- or higher). Study of an organization's marketing communication with consumers and other stakeholders. Theory, characteristics and management of various promotion mix elements are surveyed including advertising, sales promotion, public relations, direct marketing, and personal selling.
- MKT 307 Sales Administration 3
 Prereq.: MKT 295 (C- or higher). 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 308 Introduction to Hospitality 3
 Prereq.: MKT 295 (C- or higher). Overview of the hospitality industry, with special emphasis on hotel, restaurant, tourism, recreation, and leisure. Topics include history, principles, practices, philosophies, systems, description, and interrelationships of hospitality components and the social and economic forces that impact this industry. Fall.
- MKT 311 Retailing 3
 Prereq.: MKT 295 (C- or higher). Discussions of retail store problems, opportunities and trends in retailing, store organizations, merchandising, and store management.
- MKT 313 Merchandising 3
 Prereq.: MKT 311 (C- or higher). 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 295 (C- or higher). 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 340 Product Development and Management 3
 Prereq.: MKT 295 (C- or higher). 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 295 (C- or higher). 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 358 Relationship Marketing 3
 Prereq.: MKT 295 (C- or higher). Strategic planning for developing and retaining repeat customers and business buyers. An examination of customer service systems and measurements such as buyer communication, customer satisfaction research, databases, pricing incentives, and product enhancements. Spring.
- MKT 359 Special Events Marketing 3
 Prereq.: MKT 295 (C- or higher). Prepares current and future managers to deal with business special events and meetings. Provides students with basic concepts common to all special events, as well as, ideas and techniques concerning unique situations.
- MKT 375 Services Marketing 3
 Prereq.: MKT 295 (C- or higher). Investigates unique problems associated with marketing of services. Focuses on managing customer perceptions of service quality by designing services to match customer driven quality standards, communication to set realistic customer expectations and delivering services to meet those expectations.
- MKT 413 Business Marketing 3
 Prereq.: MKT 295 (C- or higher). 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 295 and STAT 200 with grades of C- or higher; or permission of department chair. 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 430 Sales Technique and Training 3
 Prereq.: MKT 295 (C- or higher); or permission of instructor and department chair. 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 443 Advanced Concepts in Retailing 3
 Prereq.: MKT 313 (C- or higher); and senior status or permission of department chair. Analysis of current problems in retailing by applying principles of merchandising, human relations, marketing, and management via case and/or site studies. The course will involve fieldwork and classroom seminar sessions.
- MKT 450 Strategic Marketing 3
 Prereq.: AC 212 and FIN 295 and MGT 295 and MIS 201 and MKT 423 (all with grades of C- or higher); and senior standing. For graduate students, permission of the MBA director. Achieving and sustaining competitive advantage in a complex, dynamic environment. Case studies, simulated scenarios and/or real world projects are assigned to demonstrate how business functions are integrated in making strategic marketing decisions. [c]
- MKT 460 Export Marketing 3
 Prereq.: MKT 295, 321 with grades of C- or higher; 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 470 Marketing Communications Campaigns 3
 Prereq.: MKT 306 (C- or higher); or permission of graduate advisor. Applications of marketing communication theory. Students learn how an organization integrates its promotion mix elements to present a unified message, and then create a strategic promotion plan for a real client. On demand.
- MKT 480 Marketing for Non-Profit Organizations 3
 Prereq.: MKT 295 (C- or higher). 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 to 6
 Prereq.: MKT 295 (C- or higher); and senior standing, 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 specialized subject area explore their topic in detail.

MKT 497 Marketing Internship 3
Prereq.: MKT 295 (C- or higher); and permission of the department chair and the Dean of the School of Business. Offers opportunity for students to use marketing knowledge and skills while gaining professional experience in a Connecticut business, government agency or non-profit organization. Majors with an overall GPA of 2.50 or better only. On demand.

MATHEMATICS

MATH 099 Elementary Algebra 3
Review of fundamental algorithms of whole numbers, integers, rational numbers, and elementary algebra. Students who are required to take MATH 099 must pass this course with a C- or better before successful completion of 30 hours of regular coursework. Letter grade will affect GPA as if MATH 099 were a three credit course, but these credits may not be used to fulfill the number of credits required for graduation. This course may not be used to meet the General Education requirement nor requirements for a major, a minor, or certification in mathematics. Fall, Spring, Summer.

MATH 101 Intermediate Algebra 3
Prereq.: MATH 099 (C- or higher) 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. Graphing calculator required. No credit given to students with credit for MATH 115, 119, 121, 123, 124, 125, 135, or 152 (formerly MATH 122). This course may not be used to meet the General Education requirement nor requirements for a major, a minor, or certification in mathematics.

MATH 105 Fundamentals of Mathematics 3
Prereq.: MATH 101 (C- or higher) or Placement Exam. This course is intended for those students who are not majoring in mathematics or the natural sciences. Provides students with an introduction to a broad range of topics in mathematics. No credit given to students with credit for MATH 218. May not be used to meet the requirements for a major, a minor, or certification in mathematics. Skill Area II

MATH 110 Finite Mathematics 3
Prereq.: MATH 101 (C- or higher) or 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. Can be used to meet requirements of a major or minor in mathematics only for students seeking elementary, early childhood or middle level certification. Not recommended for use in meeting certification requirements for secondary school mathematics. Fall. Skill Area II

MATH 113 Structure of Mathematics I: Number Systems 3
Prereq.: MATH 101 (C- or higher) 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. Intended ONLY for students seeking elementary, early childhood, or middle level certification and can be used to meet requirements of a major or minor in mathematics only for such students. Not recommended for use in meeting certification requirements for secondary school mathematics. Skill Area II

MATH 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 119, 124, 135, or 152 (formerly MATH 122). Can be used to meet requirements of a major or minor in mathematics only for students seeking elementary, early childhood or middle level certification. Not recommended for use in meeting certification requirements for secondary school mathematics. Skill Area II

MATH 119 Pre-Calculus with Trigonometry 4
Prereq.: MATH 101 (C- or higher) or Placement Exam. Preparation course for the calculus sequence. Properties of functions including polynomial, rational, periodic, exponential and logarithmic, and rate of change. Also covers trigonometry, including the unit circle, right triangles, and analytic trigonometry. No

credit given for students with credit for MATH 115, 121, 124, 135 or 152 (formerly MATH 122). Skill Area II

MATH 120 Problem Solving I 1
Prereq.: MATH 115 (C- or higher) or MATH 119 (C- or higher) or Placement Exam. Polya's four-step approach to problem solving applied to non-routine problems in algebra, geometry, and trigonometry. One two-hour lab per week.

MATH 121 Pre-Calculus Mathematics 3
Prereq.: MATH 101 (C- or higher) or Placement Exam. 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 119, 124, 125, 135 or 152 (formerly MATH 122). Skill Area II

MATH 123 Applied Business Mathematics 3
Prereq.: MATH 101 (C- or higher) or placement exam. Elements of calculus and finite mathematics with emphasis on applications to problems arising in business. Topics include polynomial and rational functions, modeling, limits, continuity, derivatives, maxima and minima of functions, matrices, systems of linear equations, linear inequalities, and linear programming. Exponential and logarithmic functions will be studied if time permits. No credit given for students with credit for MATH 124, 125, 135 or 152 (formerly MATH 122). Skill Area II

MATH 124 Applied Calculus with Trigonometry 4
Prereq. Math 101 (C- or higher). Polynomial, rational, exponential, logarithmic, and trigonometric functions and their application to the natural sciences. The concepts of rate of change, limit, and derivative are emphasized. Integration is introduced. No credit given to students with credit for MATH 115, 119, 125, 135, or 152 (formerly MATH 122). Can be used to meet requirements of a major or minor in mathematics only for students seeking elementary, early childhood, or middle level certification. Not recommended for use in meeting certification requirements for secondary school mathematics. Skill Area II

MATH 125 Applied Calculus 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. Graphing calculator required. No credit given to students with credit for MATH 124, 135, or 152 (formerly MATH 122). Can be used to meet requirements of a major or minor in mathematics only for students seeking elementary, early childhood or middle level, certification. Not recommended for use in meeting certification requirements for secondary school mathematics. Skill Area II

MATH 135 Applied Engineering Calculus I 3
Prereq.: MATH 119 (C- or higher) or both MATH 115 (C- or higher) and MATH 121 (C- or higher) or Math Placement Exam. This course is for students majoring in engineering technology. Topics include analytical geometry, limits, and differentiation. Exponential, logarithmic, and trigonometric functions are included. Applications to physics and engineering problems will be emphasized. No credit given to students with credit for MATH 124, 125, or 152 (formerly MATH 122). Skill Area II

MATH 136 Applied Engineering Calculus II 3
Prereq.: MATH 135 (C- or higher) or permission of instructor. Continuation of MATH 135. Topics include the integral, techniques of integration, application of integrals, and multivariate calculus. No credit given to students with credit for MATH 221. Engineering Technology students with credit for MATH 125 prior to Spring 2003 will be admitted. Skill Area II

MATH 152 Calculus I 4
Prereq.: MATH 115 (C- or higher) and MATH 121 (C- or higher), or MATH 119 (C- or higher). Limits and continuity, derivatives, applications of derivatives, antiderivatives, definite integrals, and applications of definite integrals. Skill Area II

MATH 213 Structure of Mathematics II: Probability and Geometry 3
Prereq.: MATH 113 (C- or higher). 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. Early Childhood, Elementary or Middle Level certification candidates only. Can be used to meet requirements of a major or minor in mathematics only for students seeking elementary, early

childhood or middle level certification. Not recommended for use in meeting certification requirements for secondary school mathematics. Skill Area II

MATH 218 Discrete Mathematics 4
Prereq.: MATH 152 (formerly MATH 122 C- or higher). Topics include logic, induction, recursion, combinatorics, matrices, graph theory, set theory, and number theory.

MATH 220 Problem Solving II 1
Prereq.: MATH 120 (C- or higher) and 152 (formerly MATH 122 C- or higher). Polya's four-step approach to problem solving applied to non-routine problems in algebra, geometry, trigonometry, and calculus. One two-hour lab per week.

MATH 221 Calculus II 4
Prereq.: MATH 152 (formerly MATH 122 C- or higher). Continuation of MATH 152. Differentiation and integration of transcendental functions, techniques of integration, indeterminate forms, improper integrals, sequences, and infinite series. Skill Area II

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 4
Prereq.: MATH 152 (formerly MATH 122) C- or higher, and MATH 218 (C- or higher). Vector spaces, systems of linear equations, determinants, linear transformations, and matrices are considered. Three lectures and one three-hour lab per week.

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.

MATH 305 Structure of Mathematics III: Number Patterns 3
Prereq.: MATH 213 (C- or higher) and MATH 119, 121, 124, or 125 (C- or higher). 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. Early Childhood, Elementary Education and Middle Level certification candidates only. Can be used to meet requirements of a major or minor in mathematics only for students seeking elementary, early childhood, or middle level certification. Not recommended for use in meeting certification requirements for secondary school mathematics.

MATH 306 Structure of Mathematics IV: Development of Geometric Ideas 3
Prereq.: MATH 213 (C- or higher) and MATH 115, 119, or 124 (C- or higher). Exploration of geometric concepts via hands-on activities and computer software. Topics include congruence, similarity, transformations, tessellations, and fractals. Early Childhood, Elementary Education and Middle Level certification candidates only. Can be used to meet requirements of a major or minor in mathematics only for students seeking elementary, early childhood, middle level, or special education certification. Not recommended for use in meeting certification requirements for secondary school mathematics. [c]

MATH 307 Topics in Elementary Mathematics 1 to 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. Can be used to meet requirements of a major or minor in mathematics only for students seeking elementary, early childhood or middle level certification. Not recommended for use in meeting certification requirements for secondary school mathematics. Irregular.

MATH 313 Number Systems from an Advanced Viewpoint 2
Prereq.: MATH 218 (C- or higher) and MATH 221 (C- or higher). Examination of the content of elementary school mathematics from the point of

view of teachers of secondary mathematics. Taken concurrently with either MATH 327 or 328.

MATH 320 Problem Solving III 1
Prereq.: MATH 220 (C- or higher) and 228 (C- or higher). Polya's four-step approach to problem solving applied to non-routine problems in algebra, geometry, trigonometry, calculus, discrete mathematics, and linear algebra. One two-hour lab per week.

MATH 323 College Geometry 3
Prereq.: MATH 218 (C- or higher) and 221 (C- or higher). 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 Curriculum and Technology in Secondary Mathematics I 3
Prereq.: MATH 218 (C- or higher) or MATH 221 (C- or higher). Intended for students seeking certification to teach mathematics at the secondary level. Examination of the content of the mathematics curriculum in grades 7-12, with emphasis on the development of algebraic thinking across grade levels and the use of spreadsheets, function plotting software, and graphing calculators. Graphing calculator required. Fall. [c]

MATH 328 Curriculum and Technology in Secondary Mathematics II 3
Prereq.: MATH 218 (C- or higher) or MATH 221 (C- or higher). Intended for students seeking certification to teach mathematics at the secondary level. Examination of the content of the mathematics curriculum in grades 7-12, with emphasis on the teaching of geometry, probability, statistics, and discrete mathematics, including the use of geometric drawing programs, laboratory instrumentation, and the internet. Graphing calculator required. Spring. [c]

MATH 344 Mathematics in Diverse Cultures 3
Prereq.: MATH 152 (formerly MATH 122 C- or higher) or MATH 125 (C- or higher) or MATH 305 (C- or higher). Mathematical systems of different cultures around the world and their contributions to the development of mathematics. Recent trends in ethnomathematics research and ideas on "multiculturalizing" the mathematics classroom will also be discussed. Spring. [I]

MATH 366 Introduction to Abstract Algebra 3
Prereq.: MATH 218 (C- or higher). Certain fundamental structures such as groups, rings, integral domains, and fields are considered.

MATH 398 Independent Study in Mathematics 1 to 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 demand.

MATH 409 Mathematics Through Computers 3
Prereq.: MATH 305 or 306. Exploration of computer software, such as Geometer's Sketchpad, Logo, and Excel, and the use of Web resources, to promote better understanding of mathematical concepts and algorithms. For pre-service teachers of K-9. Can be used to meet requirements for a major or minor in mathematics only for students seeking elementary, early childhood, or middle level certification. Not recommended for use in meeting certification requirements for secondary school mathematics. [c]

MATH 410 Early Childhood Mathematical Methods 3
Prereq.: MATH 213 (C- or higher) and admission to the Professional Program in early childhood education. Concepts underlying contemporary mathematics curriculum for early childhood grades. Developmentally appropriate methods for developing concepts and the meaning of operations and procedures in arithmetic through problem solving. This course is for teacher certification only and graduate credit will not be granted.

MATH 411 Clinical Experience in Mathematics Education 1
Prereq.: MATH 327 or 328 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 412 Elementary Mathematical Methods 3
Prereq.: MATH 213 (C- or higher) and admission to the Professional program in elementary education. Concepts underlying contemporary mathematics curriculum for elementary grades. Developmentally appropriate methods for developing concepts and the meaning of operations and procedures in arithmetic, through problem solving. This course is for teacher certification only and graduate credit will not be granted.

MATH 413 Teaching Mathematics in the Secondary School 4
Prereq.: MATH 327 and admission to the Professional Program in Secondary Teacher Education. Topics include planning for instruction, classroom management, promoting effective discourse, methods to address the needs of a diverse student population, and methods of assessment. Field experience required. Taken concurrently with EDSC 425.

MATH 414 Middle Level Mathematics Methods 2 or 3
Prereq.: MATH 121 or 125 or 152 (formerly MATH 122) (C- or higher), and admission to the Professional Program in middle level education. Concepts underlying contemporary mathematics curriculum at the middle level with emphasis on both the structure of the mathematics content and the procedures used in teaching for understanding. This course is for teacher certification only and graduate credit will not be granted.

MATH 421 History of Mathematics 3
Prereq.: MATH 221; or, for graduate students, admission to the M.A. Mathematics or the M.S. Mathematics (for certified secondary teachers). 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 426 Student Teaching Seminar 1
Prereq.: MATH 413. Examination of problems which arise in secondary mathematics instruction. Taken concurrently with EDSC 435.

MATH 440 Selected Topics in Mathematics 1 to 3
Prereq.: Permission of instructor. Selected topics in mathematics covering specialized areas not covered in regular offerings or that go beyond that provided for in the standard curriculum. May be repeated with different topics for a maximum of 6 credits. Irregular.

MATH 449 Mathematics Laboratory for Elementary School 3
Prereq.: MATH 412, 414 or 327 or equivalent and student teaching. Provides teachers in elementary school with the opportunity to make mathematical materials useful in teaching elementary mathematics. Each participant constructs mathematical models and manipulatives appropriate to his/her teaching level and interest. Mathematical projects and educational implications are discussed. Can be used to meet the requirements for a major or minor in mathematics only for students seeking elementary, early childhood or middle level certification. Not recommended for use in meeting requirements for secondary school mathematics. 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. Fall.

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 systems, and propositional calculus. Spring. (E)

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 200 or 215 or 315, and MATH 110 or 228. Selected topics chosen from the areas of linear programming, decision analysis, and network analysis. Spring. (O)

MATH 477 Numerical Analysis 3
Prereq.: MATH 221 and 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. (E) [c]

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)

MODERN LANGUAGES

ML 106 Languages Across the Curriculum I 1
Prereq.: Permission of instructor. Interdisciplinary course in basic language attached to a course in a particular discipline. Study of selected foreign language material integrated with the content of the other course. Practice in oral and written expression. No previous language study required. May be repeated for a maximum of three credits. On demand.

ML 146 Languages Across the Curriculum II 1
Prereq.: 112 level of a particular language or permission of instructor. Interdisciplinary course in basic language attached to a course in a particular discipline. Study of selected foreign language texts integrated with the content of the other course. Practice in oral and written expression. May be repeated for a maximum of three credits. On demand.

ML 400 Topics in Modern Languages 3
Prereq.: Permission of instructor. Literary and language topics taught in the target language. May be repeated with different topics for maximum of 6 credits. On demand.

ML 420 Internship in Foreign Languages 1 to 3
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 428 Methods and Materials for Teaching World Languages at Elementary School Level 3
Prereq.: B.S. Major in target language or State language teacher certification. Participants will link the rationale, history, and theoretical foundations of elementary world language instruction to teaching and learning, and construct and adapt models for curriculum planning, program implementation articulation, and assessment. Participants will explore contemporary methodologies, lessons, activities resources, and address issues and concerns that apply to the elementary school level. Fall, Summer.

ML 429 Seminar in Modern Language Teaching Methods 3
Prereq.: Admission to the Professional Program in teacher education, permission of department, and permission of the Director of the Office of Field Experiences. Discussion and practice of the historical, theoretical and contemporary issues, and selected topics related to the teaching of modern languages at the secondary level. Fall.

ML 440 Student Teaching Seminar in Modern Languages 1
Prereq.: Admission to the Professional Program in teacher education. Discussion, critical thinking and problem solving techniques with applications in the foreign language classroom. Taken concurrently with EDSC 435. Spring.

ML 490 Teaching World Languages II: Acquisition in Young Children for Teachers of World Languages 3
Prereq.: BS degree in target language or State language teacher certification. Participants will learn about research in the first and second language acquisition of world languages and discuss and apply implications of research findings

(including brain research theory) for teaching and learning of world languages. Not open to TESOL students. Summer.

ML 492 Topics in Language Teaching 1 to 3
Prereq.: ML 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.

ML 496 Independent Study in Modern Languages 1 to 3
Prereq.: Permission of instructor. Independent work in language, culture, and literature, to meet individual interest in topics not covered in the regular curriculum. Work done under the supervision of a faculty member. On demand.

MUSIC

Note: Students enrolled in the following courses will be assessed an Applied Music Fee — \$300.00 for 1/2 hour lesson (MUS 177) and \$400.00 for full hour lesson (MUS 178, 278, 378, 478). Contact the Department at 832-2912 for additional information.

MUS 090 Concert/Forum Attendance 0
Attendance, totaling 9 per semester, at concerts/student forums sponsored by the Music Department. Music majors are required to enroll every semester except the semester they enrolled in either EDSC 420/421 or MUS 400.

MUS 101 Practicum in Music Education 2
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. Open only to music majors. Spring.

MUS 109 Fundamentals of Music 3
Music reading, ear-training, and elementary music theory. Study Area I

MUS 110 Listening to Classical Music 3
Introduction to masterpieces of Western art music and to skills required for critical listening. Study Area I [I]

MUS 111 Music of the World's People 3
Introduction to music from a cross-cultural perspective, including African, Asian, Hispanic, and Native American musical traditions. Study Area I [I]

MUS 112 Computer Applications to Music 3
Exploration of music using computer technology. Includes music fundamentals, elementary principles of musical composition, and computer sound synthesis through the use of computers. Study Area I

MUS 113 History of Jazz 3
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. Study Area I

MUS 114 Music Technology for the Music Educator 1
Prereq.: MUS 121 (may be taken concurrently) and MUS 250 (or equivalent skills) may be taken concurrently. Introduction to fundamental technology skills relevant to music: computer-based notation, MIDI sequencing, and basic principles of digital-audio recording and editing. Open to Music majors only.

MUS 115 Sight Singing I 1
Development of sight-singing skills, diatonic major and minor materials. Open only to music majors. To be taken concurrently with MUS 121. Fall.

MUS 116 Sight Singing II 1
Prereq.: MUS 115 (C- or higher). Continued development of diatonic major and minor sight singing and ear training skills. Introduction to chromatic materials. Open only to music majors. To be taken concurrently with MUS 122. Spring.

MUS 121 Music Theory I 2
Prereq.: Permission of instructor. Basic properties of music with emphasis on melodic materials; study includes stylistic analysis, composition, two and three-part counterpoint. Open only to music majors, minors, or permission of instructor. To be taken concurrently with MUS 115. Fall.

MUS 122 Music Theory II 2
Prereq.: MUS 121 (C- or higher). Homophonic texture and diatonic harmonic relations, form, and analysis. Open only to music majors, minors, or permission of instructor. To be taken concurrently with MUS 116. Spring.

MUS 140 Ensemble 1
Prereq.: Permission of instructor through audition. 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 (except B.A. in Jazz Studies).

MUS 141 Chorus 1
Various types of choral works are performed. Different choral literature is studied each semester. May be repeated for credit with different course content.

MUS 142 Band-Wind Ensemble 1
Prereq.: Permission of instructor through audition. Open to all students who play band instruments. Various types of literature performed. May be repeated for credit with different content.

MUS 143 Orchestra 1
Prereq.: Permission of instructor through audition. Open to all students who play orchestra instruments. Standard orchestral literature will be played. Course may be repeated for credit with different content.

MUS 144 Marching Band 1
Prereq.: Basic proficiency in playing a wind or percussion instrument. Performance of marching band music and opportunities to perform at football games and other special events. Fall.

MUS 177 Applied Music 1
Individual instrumental or vocal instruction in performance. Open to non-majors by permission of the instructor. May be repeated for a total of 6 credits. Fee: \$300 per semester. (Fee subject to change.)

MUS 178 Applied Music for Majors 2
Individual instrumental or vocal instruction in performance. Open only to Music majors. May be repeated for a total of 6 cr. Fee: \$400 per semester. (Fee subject to change.)

MUS 211 Ethnomusicology 3
Prereq.: MUS 121. Introduction to the discipline of ethnomusicology. Case studies explore different musical systems and their relationship to their cultural settings. Fall. [I]

MUS 213 Jazz Styles and Chronology 3
Prereq.: MUS 113 or permission of instructor. Critical study of major jazz artists and the influence of their lives, culture, and music on the development of jazz. On demand.

MUS 215 Sight Singing III 1
Prereq.: MUS 116 (C- or higher). Continued development of diatonic major and minor sight singing and eartraining skills. Introduction to modulatory materials. Open only to music majors. To be taken concurrently with MUS 221.

MUS 216 Sight Singing IV 1
Prereq.: MUS 215 (C- or higher). Continued development of diatonic major and minor sight singing and eartraining skills. Expanded tonal and atonal materials. Open only to music majors. To be taken concurrently with MUS 222. Spring.

MUS 221 Music Theory III 2
Prereq.: MUS 122 (C- or higher). Harmonic relations continued; chromatic and higher tertian harmony, form, and analysis continued, basic principles of orchestration. Open only to music majors. To be taken concurrently with MUS 215. Fall.

- MUS 222 Music Theory IV 2
Prereq.: MUS 221 (C- or higher). Study of historical forms and contrapuntal techniques through analysis, composition, and performance, continuation of orchestration study. Open only to music majors. To be taken concurrently with MUS 216. Spring.
- MUS 235 Music History I 3
Prereq.: MUS 122. Survey of the development of Western music in its historical context from ancient Greece to the late Baroque era. Fall.
- MUS 236 Music History II 3
Formerly MUS 335. Prereq.: MUS 221, 235. Survey of the development of Western music in its historical context from the late Baroque to the late Romantic era. Spring.
- MUS 250 Piano Class I 2
Introduction to piano through the study of harmonic, melodic, and rhythmic patterns. Elementary keyboard skills in sight-reading, transposition and melody harmonization. For students with no previous piano training.
- MUS 251 Piano Class II 2
Prereq.: MUS 250 or equivalent skill and permission of instructor. Continuation of keyboard skills introduced in MUS 250.
- MUS 252 Jazz Piano I 2
Interpretation and performance of standard pieces from the jazz repertoire through individual keyboard application in a class piano setting. Techniques covered include proper voicings, comping techniques, improvisation, 12-bar blues and solo piano. Open only to Music majors, or permission of instructor. Fall. On demand.
- MUS 253 Jazz Piano II 2
Prereq.: MUS 252. Continuation of repertoire and keyboard skills introduced in MUS 252. Open only to Music majors. Spring.
- MUS 259 Vocal Methods 1
Methods and materials of class instruction in voice. Open only to Music majors. Spring.
- MUS 261 Woodwind Class I 1
Beginning class instruction in woodwind instruments. Open only to Music majors. Fall.
- MUS 262 Brass Class I 1
Beginning class instruction in brass instruments. Open only to Music majors. Spring.
- MUS 263 Percussion Class 1
Class instruction in snare drum, tympani, and related orchestral and band percussion instruments. Open only to Music majors. Fall.
- MUS 264 Voice Class 2
Instruction in voice production and vocal techniques. Vocalizations for vowels, range, flexibility. Song repertoire for individual members. Fall.
- MUS 267 String Class: Violin and Viola 1
Methods and materials of class instruction in violin and viola. Open only to Music majors. Fall.
- MUS 268 String Class: Cello and Double Bass 1
Methods and materials class instruction in cello and double bass. Open only to Music majors.
- MUS 269 Technology in Music Education 1
Prereq.: MUS 269. Introduction to the practical application of general productivity, multimedia, and music-specific technologies to teaching music in elementary, middle, or high schools. Restricted to Music Education majors. Fall.
- MUS 278 Applied Music for Majors II 2
Prereq.: MUS 178 Individual instrumental or vocal instruction in performance. Open only to music majors. May be repeated for up to 4 credits in any one performing area. Special conditions: demonstrated proficiency at prerequisite level. Fee: \$400 per semester. (Fee subject to change.) Spring.
- MUS 310 General Music Methods 3
Prereq.: MUS 101 (C- or higher). Organization, aims, and supervision of elementary and middle school programs. Materials for teaching general music in the elementary and middle schools. Open only to Music Education majors. Fall.
- MUS 317 Choral and Instrumental Music Methods 4
Prereq.: MUS 310 (C- or higher). Organization, aims, methods and supervision of vocal and instrumental programs, and vocal and instrumental organizations in elementary, middle, and high schools. Discussion of special problems of choral and instrumental conducting and the selecting of choral and instrumental materials for elementary, Middle, and high school choirs and instrumental ensembles. Open only to Music Education majors. Spring.
- MUS 335 Music History III 3
Formerly MUS 435. Prereq.: MUS 236. Historical and theoretical study of works by major 20th century composers and their compositional procedures. Open to Music majors only. Fall.
- MUS 350 Piano Class III 2
Prereq.: MUS 251 or equivalent skill and permission of instructor. Continuation of MUS 251 with emphasis on keyboard skill. Harmonization of folk melodies, improvising to given chord pattern, sight-reading of community songs. Fall.
- MUS 351 Piano Class IV 2
Prereq.: MUS 350 or equivalent skill and permission of instructor. Continuation of MUS 350. Improvisation on more advanced level. Repertoire from various styles of piano literature. Spring.
- MUS 363 Jazz Theory and Improvisation I 2
Prereq.: MUS 222 or permission of instructor. Performance study of the elements of jazz theory, transcriptions of solos, and other concepts of jazz improvisation. Student will perform on their major instruments. Open only to music majors. Fall.
- MUS 364 Jazz Theory and Improvisation II 2
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. Open only to music majors. Fall.
- MUS 366 Jazz Composing and Arranging II 2
Prereq.: MUS 365 or permission of the instructor. Continuation of skills in composing and arranging introduced in MUS 365. Open only to music majors. Spring.
- MUS 367 Choral Conducting 2
Prereq.: MUS 222 or equivalent. Development of skills in choral conducting and score reading. Open only to Music majors. Fall.
- MUS 368 Instrumental Conducting 2
Prereq.: MUS 367. Development of skills in instrumental conducting, baton technique, and score reading. Open only to Music majors. Spring.
- MUS 378 Applied Music for Majors III 2
Prereq.: MUS 278. Individual instrumental or vocal instruction in performance. Open only to music majors. May be repeated for up to 4 credits in any one performing area. Special conditions: demonstrated proficiency at prerequisite level. Fee: \$400 per semester. (Fee subject to change.)
- MUS 380 Advanced Notation, Sequencing, and Sound Synthesis 2
Prereq.: MUS 114. Advanced development of music technology skills focusing on computer-based notation, sound synthesis, MIDI sequencing, and digital audio recording and editing. Spring.

- MUS 390 Orchestration 2
Prereq.: MUS 222. Techniques and principles of orchestration; both instrumental and vocal arranging. Open only to Music majors. Fall.
- MUS 395 Composition 3
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 to 4
Prereq.: Permission of instructor. Individual study in an area of student's choice. May take the form of performance, composition, paper, or other area to be determined in consultation with a Music Department advisor.
- MUS 401 Topics in Music 1 to 3
Prereq.: Permission of instructor. This course can be taken for the American Studies program. 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. Irregular. AMS
- MUS 402 Student Teaching Seminar 1
Seminar in which students discuss experiences in their learning communities, share resources, problem-solve, and develop and refine teaching techniques. Taken concurrently with EDSC 420 and/or 421.
- MUS 404 Topics in Performance 1 to 3
Prereq.: Permission of instructor. Topics relevant to the performing musician including accompaniment, diction for singers, and performance practice. On demand.
- MUS 405 Topics in Composers 3
Prereq.: Permission of instructor. Historical and analytical study of selected composers and their works. On demand.
- MUS 406 The Professional Performer/ Pedagogue 2
Prereq.: All required 300 level music courses (C- or better). Preparation for students to make the transition from academe to a variety of professional venues. Topics include the development of the professional musician and experience with the fundamentals of pedagogy in specific areas. Open only to Music majors. On demand.
- MUS 407 Jazz Pedagogy 2
Prereq.: MUS 222 and MUS 364 or permission of instructor. Includes examination of existing jazz music and texts; the administration and development of jazz ensembles. Open only to music majors. On demand.
- MUS 435 Music History III 3
Prereq.: MUS 335 or permission of instructor. Survey of the development of Western music in its historical context from the late Romantic era to the present. Fall.
- MUS 469 Music Theory Review 2
Prereq.: Four semesters of undergraduate music theory. Survey of the principles of diatonic and chromatic elements of theory. This course is a prerequisite to MUS 470 if graduate theory placement exam is not passed. Credits from this course may not be applied toward the M.S. degree in Music Education.
- MUS 470 Musical Structure and Style 3
Prereq.: Four semesters of undergraduate music theory or demonstrated proficiency on the Music Theory Placement Examination. 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.
- MUS 478 Applied Music for Majors IV 2
Prereq.: MUS 378. Individual instrumental or vocal instruction in performance. Open only to music majors. May be repeated for up to 4 credits in any one performing area. Special conditions: demonstrated proficiency at prerequisite level. Fee: \$400 per semester. (Fee subject to change.)
- MUS 495 Advanced Composition 2
Prereq.: MUS 395 or permission of instructor. Continuation of MUS 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 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 410 Holistic Family Care and Health Promotion Across the Life Span 4
Prereq.: NRSE 300, 301, 303, and matriculation in the BSN program. Integration, analysis, and synthesis of comprehensive theoretical concepts of holistic care across the life span in diverse settings. Must be taken concurrently, consecutively or contiguously with NRSE 412 and 414. Fall, Spring, Summer.
- NRSE 412 Holistic Family Health Clinical Practicum 4
Prereq.: NRSE 300, 301, 303, and matriculation in the BSN program. Application of the nursing process to families in diverse settings. Emphasis on leadership, delegation, health promotion, and complex care based on evidence based practice. Must be taken concurrently, consecutively, or contiguously with NRSE 410 and 414, or permission of the Coordinator.
- NRSE 414 Professional Nursing Role 4
Prereq.: Completion of all BSN course work. Synthesis of professional nursing practice from the analysis of selected ethical, social, political, professional, and role issues with related field experiences as appropriate. Must be taken concurrently, consecutively or contiguously with NRSE 410 and 412, or permission of the Coordinator. Fall, Spring, Summer.
- NRSE 498 Special Studies in Nursing 3
Prereq.: 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.

PEACE STUDIES

- PES 110 Introduction to the Study of Peace and War 3
Introduction to the study of peace and war from an interdisciplinary perspective, focusing on problems of just war theory, pacifism, types of wars, and the nature of peace movements, with reference to conflicts today and in the past. Fall. Study Area II.
- PES 410 Research in Peace Studies 3
Directed research project in Peace Studies. Open to Peace Studies minors only. Spring.

PHILOSOPHY

- PHIL 100 Search in Philosophy 3
Introduction to the techniques and perspectives of philosophical inquiry. Title and content may vary from section to section. Study Area I
- 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. Study Area I

- PHIL 121 Introduction to Philosophy through Literature 3
Introduction to philosophical inquiry pursued through literary works. Topics covered include the nature of literary understanding, its relation to philosophical inquiry, and the meaning and grounds of philosophical ideas about the identity and interpretations of a work of literature. Study Area I
- PHIL 135 Nature, Mind, and Science 3
Introduction to philosophical problems concerning matter, life, mind, cosmology, and evolution from ancient times to the present. Fall. Study Area I
- PHIL 144 Moral Issues 3
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. Study Area I
- 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. Skill Area I
- PHIL 222 Philosophy of 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)
- PHIL 230 Ancient Greek Philosophy 3
Development of Greek philosophy from the pre-Socratics to Plato and Aristotle. Fall.
- 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)
- PHIL 235 Philosophy of Social Science 3
Study of philosophical questions related to the social sciences, including the origin and nature of the concept of social science and the relation between social science and natural science. Spring. (O) Study Area I
- PHIL 240 Ethical Problems in Business 3
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.
- PHIL 241 Environmental Ethics 3
Critical examination of ethical problems concerning how people treat the land, air, plants, and animals. Fall. (E)
- PHIL 242 Ethical Problems in Technology 3
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.
- PHIL 245 Computer Ethics 3
Examination of ethical theories and principles relevant to issues regularly confronted by computer professionals and users, including privacy, intellectual property, expression, and codes of conduct. Fall.
- 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) Study Area I
- PHIL 250 Introduction to Asian Philosophy 3
Broad survey of Indian and Chinese philosophical traditions. Fall. (E) Study Area I [I]
- PHIL 255 Philosophy of Religion 3
Critical examination of important concepts, beliefs and arguments presented in world religions. Fall. Study Area I
- PHIL 260 African Philosophy 3
Examination of some or all of the five leading trends in African philosophy; ethnophilosophy, sagacity philosophy, metaphilosophy, modern/critical philosophy, and liberation philosophy. Spring. Study Area I [I]
- PHIL 275 Chinese Philosophy 3
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) Study Area I [I]
- PHIL 290 Philosophical Methods 3
Introduction to philosophical methods, including research of material, argumentation and writing, and oral presentation of topics within different philosophical traditions. Open only to philosophy majors or minors. Fall.
- 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.
- PHIL 330 Early Modern Philosophy 3
Prereq.: PHIL 112. European philosophy from the Renaissance to the European philosophy after the Renaissance to the enlightenment (17th and 18th centuries). Authors may include: Descartes, Spinoza, Leibniz (rationalists), Locke, Berkeley, Hume (empiricists and Kant. Topics may include: epistemology, metaphysics, ethics, philosophy of science, political theory and philosophical psychology Fall. (O)
- PHIL 332 The Age of Ideology 3
Prereq.: PHIL 112 or 330, or permission of instructor. Major issues of the nineteenth century: the era of Darwin, Hegel, Schopenhauer, Nietzsche, Marx, and others, focusing on metaphysics, epistemology, political philosophy, and philosophy of history. Topics include philosophical background to continental philosophy, liberal, conservative and socialist ideologies, and the scientific doctrines of evolutionism and mechanism. Fall. (E) [I]
- PHIL 335 Philosophy of Science 3
Study of some contemporary philosophies of science, including theories of scientific revolutions, confirmation and refutation of scientific theories, hypothesis formation and theory testing, and scientific progress. Spring. (E)
- PHIL 345 Philosophy of War and Peace 3
Philosophical concepts related to war and peace from the ancient world to modern times. including just war, perpetual peace, moral equivalent of war, non-violence, absolute and non-absolute pacifism, war crimes, cease fires and peace-keeping. Fall. [I]
- PHIL 346 Ethical Theory 3
Prereq.: One previous course in philosophy. Examination of problems in theory about right and wrong, good and bad. Spring.
- 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)
- PHIL 360 African-American Philosophy 3
Critical examination of the writings of African-American philosophers from 1619 to the present. Addresses issues in moral, social, and political philosophy. Spring. (O)
- 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. Study Area I [I]
- PHIL 368 Contemporary Epistemology and Metaphysics 3
Prereq.: PHIL 220 and 330, or permission of instructor. 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
Formerly PHIL 276. Critical survey of Buddhist philosophy from its Indian beginnings to its development in China, including contemporary aspects. Primary source material is used to illustrate key doctrinal developments. No credit given to those with credit for PHIL 276. Fall. [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. AMS
- PHIL 400 Seminar in Philosophy 3
Prereq.: PHIL 220 and 330, or permission of instructor. Study of selected topics as announced. Spring. AMS
- PHIL 440 Project in Applied Ethics 3
Prereq.: PHIL 220, 346 and six credits from PHIL 144, 222, 240, 241, 242, 349, HHSP 246, 341, 342. Research in applied ethics. May include a practicum. Spring.
- PHIL 441 Philosophy Honors Thesis 3
Prereq.: Major in philosophy and approval of department. Undergraduate thesis on a topic in philosophy. On demand.
- PHIL 492 Independent Study 1 to 3
Prereq.: Permission of instructor. Individual research in selected topics. Open to any student who wishes to pursue a topic of special interest for which the student is qualified. On demand.

PHYSICAL EDUCATION

Note: Students not majoring in Physical Education should see other courses under Recreation. PE 244 is required of all students who enter the University with fewer than 15 credits in fulfillment of the University requirement under Skill Area IV.

- 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, Winter.
- 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, Winter.
- 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, Winter.
- PE 110 Concepts in Fitness 2
Examines the general concepts of health-related physical fitness in a lecture/laboratory setting. Open to exercise science and athletic training students only.
- PE 111 Orientation to Physical Education 2
Examines the history, philosophy, and foundation aspects of physical education with allied fields. Open to physical education majors only.
- PE 112 Introduction to Athletic Training 2
Designed to acquaint the student with the academic and clinical requirements of the training major as required by CAAHEP accreditation. Requirements for NATABOC for introduced to the basic theories and principles of athletic related injuries. Fall.
- PE 113 Introduction to Exercise Science 2
The broad nature of the field of exercise science and the difference between exercise science and its sister discipline, physical education, will be examined. The development of exercise science as a discipline and the changes that exercise and society
- have undergone in the last decade. Discussion of exercise and sports psychology and motor behavior as they relate to human movement and behavioral terms. Fall.
- PE 201 Teaching Aerobics: Dance, Step and Aqua 2
Principles of teaching aerobic fitness activities in the dance studio and in the pool. Topics include dance design, safety concerns, basic steps, choreography, and exercise leadership skills. Open to Exercise Science students only. Spring.
- PE 210 Personal and Community Health 2
Prereq.: BIO 111 (C- or higher). Individual health problems of college students as well as optimum health patterns for the school, community, and home. Open to physical education, exercise science, and athletic training students only.
- PE 213 Anatomy in Physical Education 3
Prereq.: BIO 111 (C- or higher). Study of structure and function of the human body with emphasis upon skeletal, muscular, nervous, and respiratory systems as applied to physical activity. Open to physical education, exercise science, and athletic training students only.
- PE 214 Physiology in Physical Education 3
Prereq.: PE 213 (C- or higher) and CHEM 111 (C- or higher). Study of the function of the human body with emphasis on the muscular, circulatory, respiratory, and nervous systems as applied to physical activity.
- PE 215 Physiological Aspects of the Human Performance of the Aging 3
This course will stress the physiological responses of exercise and the physiological rationale for lifelong physical activities for the aged. Irregular.
- PE 216 Kinesiology 3
Prereq.: PE 214 (C- or higher) and PHYS 111 (C- or higher). Analysis and application of principles of mechanics as they relate to motor skills in physical activity.
- PE 217 Care and Treatment of Athletic Injuries 3
Prereq.: PE 213 (C- or higher). 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. Open to exercise science and athletic training students only.
- PE 218 Scientific Basis for Athletic Training 3
Prereq.: PE 217. Provides an opportunity to focus on concepts, theories, and techniques necessary for orthopedic evaluation of athletic injuries, pre-season screening and posture. Basic understanding of mechanism of injury and pathology will be emphasized. Spring.
- PE 219 Methods of Teaching Golf 1
Designed for the student to teach and perform various golf swings and to learn golf course strategies and course management. Open to physical education students only.
- PE 244 Fitness/Wellness Ventures 2
Benefits of healthy lifestyle incorporating fitness and wellness topics within a lecture and activity setting. Skill Area IV
- PE 271 Advanced Volleyball 1
Survey course in volleyball fundamentals and techniques that will focus on volleyball game strategy. Teaching/coaching applications will emphasize kinesiological principles for personal and team development. Activity course. Open to physical education majors only.
- PE 272 Movement Fundamentals 2
Introduction to spatial and dynamic considerations of movement. Kinesthetic awareness and application of locomotor and axial movements in creative combinations will be explored. Teaching creative dance will be emphasized. Activity course. Open to physical education majors only.
- PE 273 Tumbling and Gymnastics 2
Prereq.: Permission of instructor. Skills course in tumbling and gymnastics emphasizing pedagogy, error correction, and spotting techniques. Basic tumbling skills and apparatus activities are included. Activity course. Open to physical education majors only.

- PE 277 Outdoor Adventure Activities 2
Survey course that includes group initiative games, rope course activities, and orienteering. Develops skills necessary to organize a safe, effective outdoor education program. Some class meetings occur off campus. Open to physical education majors only. Spring.
- PE 278 Methods of Teaching Games 1
Effectively organize and implement a variety of games experiences for primary grades, intermediate grades and middle school. Emphasis on selection of age-appropriate games and demonstration to involve children in the analysis and modification of games. Open to Physical Education majors only. Fall.
- PE 279 Methods of Teaching Team Sports 3
Methods course in the fundamental skills and techniques of team sports. Focus on preparing students to plan teaching strategies for skill attainment and proper teaching progressions. Open to Physical Education majors only.
- 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. Open to physical education students only.
- PE 304 Secondary Methods in Physical Education 3
Prereq.: PE 272 and PE 300 or permission of instructor and admission into the Professional Program in Teacher Education. Curricular content of physical education for secondary teaching is discussed and analyzed. Methods and techniques of teaching are presented and opportunities for teaching provided. Course is a prerequisite to student teaching. Open only to Physical Education majors.
- PE 305 Evaluation in Physical Education 3
Prereq.: STAT 104. Measurements in health and physical education. Emphasis on modern tests of physical fitness, skills, knowledge, and general motor ability. Fall.
- 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. Irregular.
- PE 307 Human Nutrition 3
Prereq.: CHEM 111 (C- or higher). Principles and concepts of normal human nutrition applied to various stages in life and activities especially as they relate to health promotion and weight control. Motivational skills for fitness, adherence to healthy nutrition, and strategies for evaluating health and fitness claims will be discussed. Open to physical education, exercise science and athletic training students only.
- PE 311 Stress Management 3
Prereq.: PE 210 (C- or higher), PSY 112. Examines the physical and mental phenomena that constitute stress and the effects of negative stress on the body. Presents strategies for managing and coping with stress, increasing self control, and adaptive behavior.
- PE 314 Baseball Officiating 2
Rules and techniques of officiating interscholastic and intercollegiate baseball. The course includes field experience and classroom lecture. Spring. (O)
- PE 315 Practicum in Athletic Training I 2
Prereq.: PE 217, admission to the Professional Program in Athletic Training. Students also must have one semester of clinical experience in CCSU's athletic training facility. Sixteen weeks of supervised NATABOC approved athletic training experience hours in CCSU's athletic training facility. Experience includes basic first aid, evaluation, taping, wrapping, design and application of protective equipment, preparing teams for competition, and maintaining the athletic training facility room. Will include weekends, unusual hours, holidays and off-campus observations.
- PE 316 Practicum in Athletic Training II 2
Prereq.: PE 218, PE 315 and admission to the Professional Program in Athletic Training. Sixteen weeks of supervised NATABOC approved athletic training experience hours in CCSU's athletic training facility. Includes evaluating athletic injuries, establishing treatment and rehabilitation plans, and maintaining medical records. Will include weekends, unusual hours, holidays, and off-campus observations.
- PE 317 Therapeutics in Athletic Training 3
Prereq.: PE 217. Introduction to the theories and techniques of manual muscle length testing, goniometry, and isokinetic testing with emphasis on rehabilitation of injuries sustained to the athletic population. Fall.
- PE 319 Practicum in Athletic Training III 2
Prereq.: PE 316, PE 317 and admission to the Professional Program in Athletic Training. Sixteen weeks of supervised NATABOC approved athletic experience hours in CCSU's athletic training facility. Includes pre-season screening and physicals, general issues and neurological evaluations, and advanced rehabilitation skills. May include weekends, unusual hours, and holidays.
- 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. Spring.
- PE 350 Racquet Sports 2
Survey course in racquet sport skills and techniques that will focus on application of motor learning and kinesiological principles for personal skill development as well as teaching/coaching application. Activity course. Open to physical education majors only.
- PE 375 Training for Fitness 2
Prereq.: PE 214 (C- or higher). Designed to enhance fitness levels and to develop the knowledge and skills required to organize a safe and effective physical fitness program. Activity course. Open to physical education, exercise science, and athletic training majors only.
- PE 380 Leadership in Exercise and Wellness 2
Prereq.: PE 210 (C- or higher), 375 (C- or higher). Opportunities for students to gain knowledge assisting instructor in the Fitness/Wellness course. Students will learn to lead exercise sessions and engage in health promotion activities. Open to exercise science students only. Spring.
- PE 402 Organization and Administration of Physical Education 3
Prereq.: Admission into the Professional Program in 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. Fall.
- PE 403 Methods in Physical Activity for the Aging 3
An examination of appropriate activities and methods of teaching physical education for the elderly. Irregular.
- PE 405 Elementary Methods in Physical Education 3
Prereq.: PE 272, and PE 300 and admission to the 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. An off-campus practicum is included. Open only to physical education majors.
- PE 406 Adapted Physical Education 3
Prereq.: PE 214 (C- or higher), 272, 305. Pedagogical skills and knowledge pertaining to physical education for individuals with disabilities and gifted and talented individuals. Emphasis on program planning and teaching effectiveness in the psychomotor domain. Fall.
- PE 408 The Curriculum Process in K-12 Physical Education 3
Prereq.: Admission to the Professional Program in Teacher Education. 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. Fall.

- PE 409 Psycho-Social Aspects of Physical Education 2
Prereq.: Admission to the Professional Program in Teacher Education. Foundation and practical psychological and sociological information for the improvement of physical education in today's society. Spring.
- PE 410 Exercise Physiology 0 or 3
Prereq.: PE 214 (C- or higher); and acceptance into Professional Program or acceptance to M.S. Physical Education. Physiological factors which affect human performance in physical education and athletics. Acute and chronic effects of exercise on the respiratory, circulatory and muscular systems. Required laboratory class taken in conjunction with lecture to give students the opportunity to gain knowledge of basic scientific and field tests in exercise physiology. Open to physical education, exercise science, and athletic training students only.
- PE 411 Organization and Management of Health Promotion Programs 3
Prereq.: Admission to the Professional Program in Exercise Science or acceptance to M.S. Physical Education. Management procedures involved in administration of health promotion programs. Emphasis on needs assessment, program goals, program implementation and program evaluation. Spring.
- PE 412 The Application of Tort Law to Physical Activity 3
Prereq.: Junior/senior standing. Designed to acquaint students majoring in exercise science, in the areas of health/fitness promotion, with negligence theory related to physical activity. Emphasis will be on risk standard of care, and standards within the field. Spring.
- PE 413 Organization and Administration of Athletic Training 2
Prereq.: CS 115 and admission to the Professional Program in Athletic Training. Theories and skills involved in managing and organizing an athletic training program including pre-participation physicals, drug testing and human resource issues. Focus includes facility design, budgeting, legal issues, medical records and public relations for the certified athletic trainer. Spring. (O)
- PE 415 Fitness Assessment and Exercise Prescription 3
Prereq.: PE 307 and PE 410; and admission to the Professional Program in Exercise Science or acceptance to M.S. Physical Education. Provides an opportunity to study the theories, concepts, procedures, and techniques necessary for the ACSM health fitness instructor certification. Basic understanding of fitness assessment, exercise prescription, intervention and rehabilitation programs will be emphasized. Open to exercise science and athletic training students only.
- PE 418 Health Education: Methods, Materials and Resources 3
Prereq.: PE 304 and PE 405 or permission of department chair; admission to Professional Program. Prepares teachers to plan, implement and evaluate instruction in a health class. State and National Standards, instructional strategies, and learner assessment are covered. Topics include violence prevention, human sexuality and stress management. Field experience required. Spring.
- PE 420 Perceptual and Motor Development 3
Prereq.: PE 300, and admission to the Professional Program in Teacher Education or graduate status. Surveys the information concerning motor learning for the young learner. Emphasis upon perceptual-motor learning and development of task analysis. Fall.
- PE 421 Pharmacology in Sports Medicine and Special Populations 3
Prereq.: PE 307 and admission to the Professional Program in Athletic Training or Exercise Science. Basic principles of pharmacology, pharmacokinetics, and commonly prescribed therapeutic medications in athletics and special populations. Introduction to contemporary medications, social drugs, and performance enhancers used in sports medicine and exercise management for individuals with chronic diseases and disabilities. Spring. (E)
- PE 422 Motor Learning 3
Prereq.: PE 300; and admission to the Professional Program in Teacher Education or acceptance to M.S. Physical Education. Examines the principles of motor learning which affect skill acquisition of secondary and post-secondary school learners. Spring.
- PE 425 Implementation and Evaluation of Health Promotion Programs 3
Prereq.: PE 307 and 410; and admission to the Professional Program in Exercise Science or acceptance to M.S. Physical Education. Comprehensive planning framework for health promotion programs in the U.S., which includes identification of health needs of the population, determining how to change health behaviors, marketing programs, and evaluation of health benefits to the individual and organizations. Open to exercise science students only. athletic training students only. Fall.
- PE 440 Therapeutic Modalities in Athletic Training 4
Prereq.: PE 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. Two lectures and one one-hour laboratory. Fall.
- PE 445 Internship in Athletic Training 6
Prereq.: PE 319, 440 and admission to the Professional Program in Athletic Training. Students also must have State of Connecticut EMT-B Certification. Internship under the direct supervision of a certified athletic trainer. May occur in a sports medicine, public or preparatory school, or college/university setting. May require weekends, unusual hours, and holidays.
- PE 450 Practicum in Exercise Science 3
Prereq.: PE 375 (C- or higher), 415, 425, CS 115 and admission to the Professional Program in Exercise Science or graduate status. Provides an opportunity for students to gain 150 clock hours of field experience in an exercise setting, conducting prescribed exercise programs.
- PE 470 Internship in Exercise and Health Promotion 6
Prereq.: PE 450 and admission to the degree program in Physical Education or graduate status. Full semester off-campus practical experience in a health and fitness program. Topics include wellness/health promotion, corporate fitness, YMCA, strength and conditioning, sports medicine, and cardiac rehabilitation. Enhances professional preparation by offering opportunities to apply fundamental concepts in a work setting.
- PE 490 Independent Study in Physical Education 1 to 3
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.
- ## PHYSICS
- PHYS 111 Introductory Physics I 3
For students who do not plan to major or minor in science. Includes study of selected topics from mechanics, heat, electricity and light, and modern physics. Not open to students who have received credit for SCI 117. Two lectures and one two-hour laboratory per week. Study Area IV
- 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. Study Area IV
- PHYS 121 General Physics I 4
Prereq.: MATH 121, or MATH 119, or MATH 124 or MATH 115 and 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. Study Area IV
- 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. Study Area IV
- PHYS 125 University Physics I 4
Prereq.: MATH 152 (formerly MATH 122), may be taken concurrently. 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. Study Area IV

PHYS 126 University Physics II 4
Prereq.: PHYS 125. Continuation of PHYS 125. Study of electricity, magnetism, and optics. Three lectures, one recitation and one three-hour laboratory per week. Study Area IV

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. Irregular.

PHYS 250 Intermediate Lab I 1
Prereq.: PHYS 125, 126 and 220 or 320 (may be taken concurrently). Laboratory course with experiments performed in mechanics, heat, and thermodynamics. One three-hour laboratory per week. Irregular.

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. Irregular.

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. Irregular.

PHYS 325 Optics 4
Prereq.: PHYS 122 or 126, MATH 221 (may be taken concurrently). 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. Irregular.

PHYS 331 Electronics I 3
Prereq.: PHYS 122 or 126, MATH 221 (may be taken concurrently). Unified treatment of solid state devices and their applications in filters, regulators, power supplies, oscillators, amplifiers, and control devices. Introduction to digital circuits such as logic gates. Two lectures and one three-hour laboratory period per week. Irregular.

PHYS 332 Electronics II 3
Prereq.: PHYS 331. A continuation of PHYS 331. Digital circuitry including flip-flops, counters, ADC and DAC, shift registers, microprocessor architecture, instruction set, addressing, and interfacing. Two lectures and one three-hour laboratory per week. Irregular.

PHYS 338 Digital Systems Laboratory 1
Prereq.: CS 354 (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 152 (formerly MATH 122) and junior standing. 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. Irregular.

PHYS 340 Computer Electronics II 4
Prereq.: PHYS 339. 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. Irregular.

PHYS 350 Intermediate Lab II 1
Prereq.: PHYS 305 or 425 (may be taken concurrently). Laboratory course with experiments in electrical measurements and modern physics (Planck's constant,

charge to mass ratio of the electron, Milikan's oil drop experiment, etc.). One three-hour laboratory per week. Irregular.

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. Irregular.

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. Irregular.

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 6 credits.

PHYS 460 Seminar in Physics 1
Prereq.: Senior standing. Through individual readings, discussions, and presentations, students will study contemporary topics in various fields of physics. Capstone requirement for all physics majors in the B.A. and B.S. non-teaching programs. Hours by arrangement. Spring.

PHYS 470 Quantum Mechanics 3
Prereq.: PHYS 425. Limits of classical physics, wave packets and uncertainty, Schrodinger wave equation, eigenfunctions and eigenvalues, one-dimensional potentials, wave mechanics, operator methods. Irregular.

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. Irregular.

PHYS 480 Student Internship in Physics 3
Prereq.: Senior standing and permission of the student's advisor. 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 Committee of Physics faculty members. Restricted to physics majors pursuing the B.A. degree. 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.

POLITICAL SCIENCE

PS 104 The World's Political Systems 3
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. PS 104 or 110 is required for all political science majors. Study Area II [I]

PS 110 American Government and Politics 3
Structure, functions, services, and problems of government and politics at the national level. PS 110 or 104 is required of all political science majors. Study Area II

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. Study Area II URS

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. [I]

PS 232 Ancient and Medieval Political Thought 3
Political thought from Plato to Machiavelli. Fall. Study Area I

- 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. Study Area II [I]
- 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)
- PS 260 Public Administration 3
Prereq.: PS 104 or 110. Study of administrative theory and the politics of bureaucracy. Assigned readings, field projects, and research papers. Study Area II
- PS 280 Religion and Politics 3
A cross-national and international survey of the role and impact of religion in domestic, regional, and international politics and conflicts. Select cases and topics, including the role of religion in the politics of the U.S. will be considered. Spring. Study Area II.
- PS 291 Special Topic in Political Science 3
Examination of selected topics in political science. Topics may vary from semester to semester. On demand.
- PS 315 Internet and Media Politics 3
Technologies of the information superhighway, their political implications, and decentralizing effects; economic concentration in the media industries; politics and public policy toward the telecommunications industries; the 1996 Telecommunications Act; rate deregulation; and potential threats to privacy and freedom of speech and of the press. Spring. (O) Study Area II
- 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 groups, the influence of news media, etc. Field research projects. Fall. (E)
- 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. AMS
- 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. AMS
- PS 334 Modern Political Thought 3
Critical consideration is given to modern political thinkers, origins, developments, and present significance. Spring. Study Area II
- PS 335 American Political Thought 3
American political thought, with special attention to early and contemporary discussion of liberalism, conservatism, pluralism, and radicalism. 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. [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. [I]
- PS 339 International Law 3
Nature and functions of international law in the international community, in theory as well as in practice. [I]
- PS 343 Political Leadership 3
Prereq.: PS 104, 110 or instructor's permission. Analysis of political leadership and its role in the political process.
- 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. Fall. (E) [c]
- PS 345 International Terrorism 3
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. [I]
- PS 380 International Conflict and Security 3
Prereq.: PS 104, 110 or permission of instructor. Theory and case studies of international and domestic conflict and conflict resolution during the Cold War and post-Cold War eras. Emphasis on forms of conflict (international war, civil wars, revolutions, domestic insurgencies) and forms of conflict resolution (intervention, bargaining, negotiation, diplomacy and strategies of international security, peace-building and peacekeeping). Fall, Spring, Summer. [I]
- PS 415 Government and Business in the Information Age 3
Prereq.: PS 104 or 110 or 315 or permission of department chair. Analysis of the evolution of the pattern of interaction between business and government in the American administrative and political process as we enter the information age, with attention to how we as members of society are affected by and may influence this process. Spring. (E)
- 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) [I]
- PS 421 Government and Politics of Africa 3
Historical, social, economic, and ideological factors impacting contemporary government and politics in Africa. Spring. (O) [I]
- PS 425 Asian Politics 3
Prereq.: PS 104. Examination of the government and politics of East and South Asia with major focus on Japan, China, and India. Emphasis on historical and cultural forces shaping politics, Western impact on Asia, and cross-national comparisons. Spring. [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. Spring. AMS
- 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. Attention to the budgetary process, lobbying, and campaign financing. Spring. Irregular. (O) AMS
- PS 432 Urban Politics and Government 3
Prereq.: PS 104 or 110 or permission of instructor (non-Political Science introductory courses may be substituted with permission of instructor). Selected urban conditions and problems such as housing, racial relations, power structure, intergovernmental relations, partisan politics, group behavior, forms of government, politics of planning, regionalism, economic development, transportation, and communication. Field research projects. Fall. (O) URS
- PS 433 20th-Century Political Thought 3
Contemporary approaches to political theory, such as socialism, conservatism, liberalism, and group theory. Fall.
- 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. Spring. [I]

- PS 435 Russian and Eastern Europe 3
Government and politics of Russia and of selected Eastern European countries such as Poland, Hungary, Ukraine, and Yugoslavia. Irregular. [I]
- PS 439 U.S. Middle East Policy 3
Examination of the evolution of United States foreign policy towards the Middle East since W.W. II. Emphasis placed on the sources, determinants, and goals of United States policy and the challenges facing the United States in the region. Irregular.
- 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 or MATH 125. An investigation in perspectives and methods of measuring public policies.
- PS 446 The Budgetary Process 3
Prereq.: PS 110 and 260. 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 recommended. Study of administrative agencies and the legal boundaries within which they operate. Constitutional case 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
Study of the politics and administration of government programs that deal with human problems such as poverty, crime, health, manpower development, and housing.
- PS 450 Ethics, Corruption, and Virtue in Public Service 3
Prereq.: PS 110, 260, and junior standing. An examination of the ethical dimensions of public service, including elective, appointment, and civil service. Topics include relationship between ethical theory and practice, standards of evaluation for action, administrative discretion, and ethical training for public administrators. Fall.
- PS 480 Government Intern Experience 4
Prereq.: Junior or senior status with 2.50 grade point average or higher; or for graduate students, permission of department chair. To be taken concurrently with PS 481. 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. Not open to students who have completed PS 482 and 483. By application.
- PS 481 Intern Seminars and Research 4
Prereq.: Junior or senior status with 2.50 grade point average or higher; or for graduate students, permission of department chair. Seminars, a paper analyzing the internship experience, and research projects related to work assignments of PS 480 are required. Open only to students currently enrolled in PS 480.
- PS 482 Government Intern Experience 8
Prereq.: Junior or senior status; a minimum of 3.00 grade point average unless special exception is granted by the internship advisor in consultation with the department chair. Must be taken concurrently with PS 483. Students who apply and are admitted to this internship are assigned to work on a full-time basis, five days per week with the State legislature or administrative department or agencies. Cannot be taken by students who have completed PS 480 and 481. No more than 4 credits of PS 482 may be applied toward a political science major. By application.
- PS 483 Intern Seminars and Research 8
Prereq.: Junior or senior or graduate status; a minimum of 3.00 grade point average unless special exception is granted by the internship advisor in consultation with the department chair. Must be taken concurrently enrolled in PS 482. A series of seminars, assigned readings, a paper analyzing the experience and completion of a substantial research project related to work assignment of PS 482. No more than 4 credits of PS 482 may be applied toward a political science major.

- PS 490 Directed Readings in Political Science 1 to 6
Prereq.: Permission of instructor. Individual programs of study for students with special abilities or interests in political science. May be repeated with different topics to a maximum of 6 credits. On demand.

- PS 491 Advanced Studies in Political Science 1 to 6
Intensive study of selected problems in political science. On demand.

- PS 492 Policy Studies 3
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. Irregular.

PSYCHOLOGY

Note: Junior standing is recommended for 300-level courses; junior or senior standing is required for 400-level courses.

- 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 minors in the B.A. and B.S. programs. Study Area III

- PSY 113 Exploring Psychology 1
Prereq.: PSY 112 (may be taken concurrently). Introduction to the academic, professional, and ethical aspects of the field of psychology. Develops critical thinking, research, library, and information acquisition for psychology. Also explores career options. Open only to Psychology majors or with permission of instructor. [c]

- PSY 125 Environment and Behavior 3
Prereq.: PSY 112. Effects of built and natural environment on human behavior, cognition, and emotion. Study Area III

- 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. Study Area III

- PSY 221 Research Methods in Psychology I 3
Prereq.: PSY 112 (C or higher) and STAT 215 (C or higher). 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. [c]

- PSY 222 Research Methods 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 234 Industrial and Organizational Psychology 3
Prereq.: PSY 112 or permission of instructor. Application of psychological theory, knowledge, and methods to behavior in industry and organizations.

- PSY 236 Life-Span Development 3
Human development from conception through old age, considering physical, emotional, social, and intellectual factors. Required of all psychology majors. Study Area III

- PSY 239 Survey of Research Methods 3
Prereq.: MATH 213 or STAT 215. Introduction to research methods, techniques, and resources in the social sciences. Emphasis will be on critical evaluation of existing research. Cannot be used to meet the requirements for a major in psychology.

- PSY 241 Introduction to Health Psychology 3
Prereq.: PSY 112. Examination of how psychological processes impact health, both positively and negatively. Topics include health-related behaviors, stress, coping, and management of chronic illness such as cancer, diabetes, heart disease, and HIV/AIDS. Spring. Study Area III
- 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. Study Area III
- PSY 330 Abnormal Psychology 3
Prereq.: PSY 112 and one other psychology course. Symptoms, causes and treatment of deviant behavior, anxiety disorders, psychoses, personality disorders, substance abuse disorders.
- PSY 342 Sensation and Perception 3
Prereq.: Six credits in psychology or permission of instructor. Study of the physiological, psychophysical, and psychological processes through which organisms interact with the environment. Fall.
- PSY 350 Cross-Cultural Psychology 3
Prereq.: PSY 112 and 6 additional credits in psychology. Exploration of topical areas in psychology from a multicultural, multiethnic perspective. Students will become more aware of the role that culture and ethnicity play in shaping human behavior and student's awareness of the range of cultural variation will be raised. Fall. [I]
- 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 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 236. Research studies pertaining to adolescence, with special emphasis on psychological development and problems characteristic of the age.
- PSY 364 Adult Development and Aging 3
Formerly PSY 428. Prereq.: PSY 236. Study of behavior, dynamics and developmental processes from early adulthood through old age and death.
- PSY 365 Psychology of the Exceptional Child 3
Prereq.: PSY 236. Psychological characteristics of exceptional children (gifted, retarded, emotionally disturbed, physically handicapped, etc.) with emphasis on implications of these characteristics for classroom procedures.
- PSY 370 The Psychology of Loving Relationships 3
Prereq.: PSY 112 and 3 additional credits in psychology. Analysis of current psychological theories and research on loving relationships with emphasis on the meaning of love and how to enhance interpersonal relationships. Spring.
- 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 380 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.
- PSY 385 Humanistic Psychology 3
Prereq.: Two courses in psychology. Study of humanistic approaches to the understanding of behavior. Focus is on the healthy personality and its potential for self-actualization.
- PSY 390 Human Sexuality 3
Prereq.: PSY 112 and one other course in psychology. Survey of social scientific theories and studies relevant to understanding human sexuality. Topics include reproductive technology, attraction, sexual response cycle, therapeutic interventions, sexually-transmitted diseases, and human development.
- PSY 410 Media Psychology 3
Prereq.: One psychology course and at least junior standing or graduate status; or permission of the instructor. Seminar examining the impact of electronic media on human behavior, feelings, thinking, and psychological development. Primary focus on the psychological impact of television and newer electronic media technologies (e.g., computers and the Internet). Summer. Irregular.
- PSY 430 Psychology of Diversity 3
Prereq.: PSY 112 or permission of instructor. Review of psychological research and theories pertaining to the study of diversity. Implications for clinical work and community education will be discussed. Spring.
- 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. Readings in contemporary literature.
- PSY 446 Introduction to Psychotherapy and the Psychology of Counseling 3
Prereq.: PSY 330 and 6 other credits in Psychology; or permission of instructor; or admission to M.A. Psychology. An introduction to the basic theories underlying psychotherapeutic process. Explores the primary assumptions of the behavioral, biological, cognitive, humanist-existential, and psychodynamic models. Topics include ethical and professional standards and diversity. Spring.
- PSY 448 Psychology of Women 3
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.
- PSY 450 Biopsychology 3
Prereq.: Six credits in psychology or permission of instructor. Analysis of relationships between bodily processes and behavior.
- PSY 451 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. Special Condition: completion of additional project by graduate students. 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.
- PSY 458 Human Neuropsychology 3
Prereq.: PSY 330 and 450, or permission of instructor. Relationship between the brain and behavior is examined. Topics include disorders of speech and memory, common neurological disorders such as dementia and stroke, and alcohol-related disorders. Spring.
- 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 re-education; personal, vocational, and correctional rehabilitation.
- PSY 462 Psychology of Early Childhood 3
Prereq.: PSY 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 critical analysis of major contemporary theories of personality, including empirical evidence relevant to these theories.

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 497 Psychology Capstone Seminar 3
Prereq.: Senior standing (86+ credits) and PSY 222. Seminar integrating the fields of psychology. Students will demonstrate critical thinking, independent scholarship, oral and written communication through the collective examination and review of primary sources. Students will develop an integrated project suitable for use at a national or regional forum, such as a conference or professional journal. Majors only (GPA 3.00 or above).

PSY 498 Topics in Psychology 1 to 3
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 to 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 demand.

QUANTITATIVE REASONING

QR 100 Basic Quantitative Reasoning 3
Prereq.: Permission of instructor or department chair. Designed to improve student's ability to succeed in mathematics courses and other disciplines requiring quantitative reasoning, problem-solving skills and overcoming math anxiety. Students will be given diagnostic tests to identify areas requiring remediation and will take the mathematics placement examination at the end of the course. This does not meet the prerequisite for any mathematics course and may not be used to meet the general education requirement or any major or minor in mathematics.

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. Skill Area IV

RDG 315 Comprehensive Reading Instruction I 3
Prereq.: Admission to the Professional Program in Teacher Education. Taken concurrently with EDTE 315 (Elementary Education majors). Development of a knowledge and belief system in reading and familiarity with instructional models and assessments. Field experience required.

RDG 316 Comprehensive Reading Instruction II 3
Prereq.: RDG 315. Taken concurrently with EDTE 320 (Elementary Education majors) or EDTE 420 (Early Childhood majors). Expansion of a knowledge and belief system in reading, and familiarity and practice with instructional models and assessments. Development of awareness to the organization and enhancement of reading programs. Field experience required.

RDG 412 Literacy in the Elementary School 3
Prereq.: RDG 316. Taken concurrently with EDTE 420 (Elementary Education majors). Integrated approach to teaching the language arts, including reading,

writing, speaking, listening, viewing, and visually representing in the elementary school curriculum. Field experience required.

RDG 414 Literacy Across the Middle School Curriculum 3
Prereq.: RDG 315. Integration of the language arts including reading, writing, listening, speaking, viewing, and visually representing as a process to construct meaning across a developmental curriculum at the middle level. Field experience required.

RDG 423 Literacy for Early Childhood 3
Prereq.: Admission to Professional Program. Developmental aspects of language activity in listening, speaking, reading, writing, viewing, and visually representing from nursery to grade 3. Understanding and application of knowledge, skills, and materials as they relate to preschool into primary grades. Field experience required.

RDG 440 Literacy in the Secondary School 3
Prereq.: Admission to the Professional Program in Teacher Education or permission of Reading Department chair. Fundamentals of reading and language arts to support instructional design and student development across disciplines and grade levels. Designed for pre-service content area teachers. Field experience required.

RECREATION

(Physical Education/Health Fitness)

REC 104 Self-Defense 1
Rigorous program designed to combine self-defense techniques, increased strength, stamina, and flexibility, which provides an increased awareness and understanding of the ability to defend oneself.

REC 105 Intermediate Self-Defense 1
Prereq.: Permission of instructor. Combination of self-defense techniques, increased strength, stamina, and flexibility on an intermediate level. Provides an increased awareness and understanding of the ability to defend oneself.

REC 141 Volleyball 1
Course designed to teach volleyball's offensive and defensive techniques. Games are designed to teach team play and strategy.

REC 162 Badminton 1
Tactics and strategies in performing various fundamentals and methods in badminton.

REC 166 Tennis 1
Fundamentals and techniques in practicing and playing tennis.

REC 168 Weight Training 1
Tactics, strategy, and proper methods in performing a variety of weight training techniques.

REC 169 Golf 1
This course is designed to perform various golf strokes and the proper methods of how to play the game of golf.

REC 200 Beginning Swimming 1
How to perform the proper tactics and fundamentals for beginning swimmers.

REC 230 Intermediate Swimming 1
This course is designed to acquaint, practice, and perform correct swimming techniques for intermediate swimmers.

REC 232 Lifeguard Training 2
Prereq.: Successful completion of the American Red Cross Screening test (administered during the first week of class). Provides skills to respond effectively to medical and aquatic emergencies. American Red Cross Certification in First Aid, CPR and Lifeguarding may be obtained.

REC 233 Water Safety Instructor's Course 2
Prereq.: Current American Red Cross Lifeguard Training Certificate. Planning, conducting, and evaluating instruction in swimming and water safety. Includes peer teaching opportunities. American Red Cross certification prepares student as a Water Safety Instructor. Spring.

RELIGIOUS STUDIES

- REL 105 Development of Christian Thought 3
Critical survey of the central, formative ideas of Christian thought and their development from New Testament times to the present. Fall. (E) Study Area I
- REL 110 World Religions 3
Investigation of the essence of religion, the variety of religious phenomena and systems, and various approaches to the study of religion. Study Area I [I]
- REL 250 Japanese Religion 3
Survey of Japanese religion from ancient times to the modern era, including Shinto, Confucianism, Buddhism, Taoism, and the new religions. Spring. Study Area I [I]
- REL 256 Philosophy, Religion, and Culture 3
Philosophic examination of religious concepts, themes, and arguments about what is most deep and rich in human experience, as this is revealed by literature, film and other forms of expressive culture. Spring. Study Area I [I]
- REL 257 Special Topics in Religion 3 to 6
Study of selected topics in religion to be announced. Students may not take this course under the same topic more than once. On demand. AMS
- REL 361 African-American Religion 3
Examines history, leadership, dynamics, theology, and cultural milieu of African-American religion with focus on religious experience and on spiritual response to social, economic and political oppression and exploitation. Spring. (E)
- REL 492 Independent Study 1 to 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.

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 or more of high school study. Fall. Skill Area III
- 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 course work in Russian except by permission of the department chair. Spring. Skill Area III [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 course work in Russian except by permission of the department chair. Fall. Skill Area III [I]
- RUS 126 Intermediate Russian II 3
Prereq.: RUS 125 or equivalent. Continuation of RUS 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. Skill Area III [I]
- RUS 225 Russian Composition and Diction 3
Prereq.: RUS 126 or permission of instructor. Self-expression by means of frequent compositions in Russian; systematic drills in pronunciation and intonation. Fall. Skill Area III [I]

SCIENCE EDUCATION

- SCI 117 Physical Science 3
Everyday aspects of physical science, with emphasis on conceptual understanding of the physical world around us, using basic principles of physics and chemistry. Two lectures and one two-hour laboratory per week. Spring. Study Area IV
- SCI 412 Elementary Science Methods 2
Prereq.: BIO 211, one course in ESCI (ESCI 111 recommended), admission to the Professional Program in Teacher Education. Methods of science instruction and assessment using developmentally appropriate activities. Introduction to science curriculum, the National Science Standards, and the State of Connecticut Frameworks. Not open to Summer Through Summer participants without permission of instructor.
- SCI 416 Educational Technology in Secondary Science 1
Prereq.: Admission to the Professional Program in Teacher Education. Taken concurrently with SCI 417. Examination and use of software applications, hardware, and the Internet in the context of integrating educational technology into science curriculum.
- SCI 417 Teaching of Science in the Secondary School 3
Prereq.: Admission to the Professional Program in Teacher Education. Taken concurrently with SCI 416. Examination and application of curriculum, instruction, and assessment strategies in line with national and state standards/frameworks and CSDE certification requirements, including the BEST program and science teaching portfolio development.
- SCI 419 Student Teaching Seminar 1
Prereq.: SCI 417 (EDSC 435 taken concurrently). Discussion, reflection, and collaboration with peers on issues that arise in secondary science education in the areas of curriculum, instruction, classroom management, and student assessment.
- SCI 420 History of Science 3
Prereq.: Three courses in science or mathematics, or permission of instructor. Historical development of biological and physical science, interdependence of various areas of science, and relations of scientific progress to society.
- SCI 452 Independent Study in Science 1 to 6
Prereq.: Approved plan of study by arrangement with the supervising instructor and approval of the science 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 one semester up to a limit of 6 credits. On demand.
- 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.
- SCI 456 Teaching Science to Young Children 3
Formerly SCI 556. Prereq.: Permission of instructor. Develops teaching strategies which assist young children in expanding their awareness, understanding, and appreciation of their natural environment. Teachers will learn active involvement techniques and will prepare hands-on science curriculum materials for use with children from preschool through grade 3. Irregular.
- SCI 485 Studies in Science 1 to 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.

SIGN LANGUAGE

SL 420 Basic Manual Communication I 3
Formerly SPED 420. An introduction to the Manual Alphabet and American Sign Language for the Deaf, designed to provide basic skill in non-verbal communication. Fall.

SL 421 Basic Manual Communication II 3
Formerly SPED 421. Prereq.: SL 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.

SOCIAL SCIENCES

SSCI 415 Social Studies Methods at the Secondary Level 4
Prereq.: Admission into the Professional Program of teacher education. Concepts, methods, and materials for teaching social studies in the secondary school. Emphasis on the use of documents, learning styles, process skills, and the interdisciplinary nature of social studies. Field experience required.

SSCI 421 Social Studies Student Teaching Seminar 1
Seminar during student teaching semester enabling students to share resources and ideas for upcoming lessons, difficulties, and successes, and discover how various schools and teachers approach the same issues. Must be taken concurrently with EDSC 435.

SOCIAL WORK

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 and the Social Environment I 3
Prereq.: BIO 111, SOC 233. Examination of individuals, families, and communities, taking an ecological perspective of the life span; various cultural, economic, and ethnic factors that influence lives; application of social work values and how these relate to developmental tasks in a socio-political environment. Field work required. 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 451 or SW 452 and 453 be taken concurrently. Fall.

SW 368 Human Behavior and the Social Environment II 3
Prereq.: SW 360 (may be taken concurrently) and admission to the Social Work major. The ecosystems framework provides the framework to examine systems of all sizes; families, groups, organizations, and communities. Special attention given to the impact of human diversity, discrimination, and oppression in the context of these social systems. Field work required. 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 and 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 demand.

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 442 The Social Consequences of Immigration 3
Prereq.: Permission of instructor. Explores the development of immigration policies, social service delivery structures, and practices that help social workers provide services to immigrants and refugees. Irregular. [I]

SW 450 Field Practicum I 3
Prereq.: All other requirements for the major except SW 362 and 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 426 (may be taken concurrently with this course); completed field application 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. 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 prepare them for professional practice 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 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. Study Area III

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. Study Area III

SOC 210 Sociological Inquiry 3
Prereq.: SOC 110. Exposes students to the sociological imagination, the link between theory and methods, how evidence is assembled to produce explanations of social phenomena, and the impact of sociological knowledge on public policy and culture.

SOC 212 Race, Class, and Gender 3
Formerly SOC 112. Sociological definition of race, class, and gender, at academic and experiential levels; the interrelationship of these social characteristics as they affect individual consciousness, group interaction, and access to institutional power and privileges in the United States. Study Area III

SOC 232 City and Suburban Life 3
Prereq.: SOC 110. 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. URS

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. Study Area III

SOC 234 The Social Construction of Self and Society 3
Prereq.: SOC 110. Symbolic interactionism and social constructionist theories are used to explore the making of meanings and identities by individuals, groups and institutions, and the influence of these constructions on society. Spring.

SOC 240 The Sociology of Gender 3
Gender as biology, social learning, social organization, and 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. Study Area III

SOC 300 Sociological Theory 3
Prereq.: SOC 210. Examines the work of Marx, Weber, Durkheim, Goffman and selected other theorists. Discussion of theories within their historical context.

SOC 310 Research Methods 3
Prereq.: SOC 210. 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.

SOC 312 Class, Power, and Status 3
Prereq.: SOC 110, 212. Examines theories and forms of class inequality and social stratification. Assesses the consequences of class and status inequality on

prospects for social change, the degree of political influence, institutional structures, opportunities for mobility, and life chances. Fall.

SOC 322 Race and Ethnic Relations 3
Formerly SOC 231. Prereq.: SOC 110, 212. Examines selected racial and ethnic groups, their history, social and ethnic patterns, and position in the social structure in the United States. Includes theories of racial and ethnic relations. Fall. AMS

SOC 332 The Sociology of Poverty 3
Prereq.: SOC 110. Analysis of poverty conditions and their causes in historical and cross-cultural perspectives. Role of poor in the larger social system and on the way needs and potentialities of the poor are determined. Spring. URS

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.

SOC 340 Aging in American Society 3
Prereq.: SOC 110. Analysis of demographic changes, role shifts, age stereotyping, institutionalization, and their implications for the treatment and status of the elderly. Exploration of the processes of aging in the later years and the impact of the same on people's lives. Fall.

SOC 350 Gay and Lesbian Communities 3
Prereq.: SOC 110. Examines the history and structure of American gay and lesbian communities. Questions the social forces that have contributed to the formation, growth and consequences of such communities. Topics such as the gay and lesbian civil rights movement, the role of organizations and the development of gay and lesbian identity are addressed. On demand.

SOC 400 Topics in Social Theory 3
Prereq.: SOC 210 and 300. Selected topics in social theory. May be repeated with different topics for a maximum of 6 credits. On demand.

SOC 410 Quantitative Analysis 3
Prereq.: SOC 310, STAT 215. Analysis of quantitative data using computer applications to test hypotheses and to complete a research project. Spring. [c]

SOC 412 Qualitative Analysis 3
Prereq.: SOC 310. Intensive exposure to participant observation, in-depth interviewing, and content analysis. Emphasis on the collection, coding, and interpretation of primary data. Additional focus on the ethics and politics of qualitative research designs.

SOC 425 Information, Images, and Inequality 3
Prereq.: SOC 110 and 3 additional credits in Sociology. Examination of the new forms of property, value, social control, identity formation, social relations and class inequities that have emerged with the information age and the electronic marketplace. Presents a political economy of virtual reality. Irregular.

SOC 433 Independent Studies in Sociology 1 to 3
Advanced study and projects in sociology of special interest to students under the supervision of one or more department members. May be taken for 1, 2, or 3 credits. May be repeated for a maximum of six credits. On demand.

SOC 440 Death and Dying: Sociological Implications 3
Prereq.: SOC 110. Different cultural, social, and historical perspectives on death and their impact on social roles and institutional change. Problems faced by the health care profession in meeting the needs of the terminally ill and the bereaved. Student will be required to have a field experience with a terminally ill patient and/or bereaved family. Spring. (E)

SOC 444 Sport and Play in Society 3
Prereq.: SOC 110 and 3 additional credits in Sociology. Examines the institution of sport from the social, political, economic, and cultural perspectives. Substantive topics include sexism and racism in sport, sport and the mass media, deviance in sport, sport and social mobility, and the relationship of sport with religious, political, and economic structures. Irregular.

- SOC 445 Social Construction of Sexuality 3
Prereq.: SOC 110 and 3 additional credits in Sociology. Explores how sexuality is constructed in American culture in the 21st century. Criticizes common assumptions that naturalize sex and sexuality to investigate complex and changing social contexts of sexualities. Irregular.
- SOC 450 Social Justice and Civil Society 3
Prereq.: SOC 110. Examination of situational contexts, institutional structures, and cultural differences on social justice concerns in a civil society. Emphasis on distributive, procedural, interactive, and/or organizational justice. Analysis of criteria used to assess justice and examination of responses to real and/or perceived injustices. Irregular.
- SOC 452 Organizations, Occupations, and Work 3
Prereq.: SOC 110 and 3 additional credits in Sociology. Systematic study of large scale, bureaucratic organizations with emphasis on relations among the organization's members, the organization as a social entity and its social and physical environment. Spring.
- SOC 455 Men, Masculinity, and Manhood in American Society 3
Prereq.: SOC 110. Overview of men's studies with an emphasis on historical conceptualizations of masculinity and masculine identity and its social construction. Special topics to be covered include men's socialization; men and relationships, sex, and friendships; men and power/violence; fatherhood; and depictions of men in the mass media. Irregular.
- SOC 460 Social Movements and Collective Action 3
Prereq.: SOC 110 and 3 additional credits in Sociology. Goals, composition, and impact of collective efforts to address an injustice or achieve social change are considered in historical and cultural context. Emphasis on recent American movements in opposition to government policies, established elites, and dominant cultural norms, such as the Civil Rights Movement, the women's movements, the peace movement, and the environmental movement. Irregular.
- SOC 478 Current Topics in Sociology 3
Prereq.: SOC 110. Analysis and evaluation of special topics in the field of sociology. Not a seminar. May be repeated with different topics. Irregular.
- SOC 482 AIDS in the United States 3
Prereq.: SOC 110 and 3 additional credits in Sociology. Examines HIV and AIDS from social, political, economic, and cultural perspectives; addresses AIDS as a disease, a moral question, and a political issue. Irregular.
- SOC 490 Community Intern Experience 3
Prereq.: Sociology major with 2.70 GPA or higher and two letters of recommendation addressing academic ability and maturity. Taken concurrently with SOC 491. Accepted students are assigned to work in either a profit or nonprofit community-based organization for 6 to 8 hours per week.
- SOC 491 Intern Seminar and Research 3
Prereq.: Sociology major with 2.70 GPA or higher and two letters of recommendation addressing academic ability and maturity. Taken concurrently with SOC 490. Assigned readings and research projects related to work assignment of SOC 490.
- SOC 495 Passages and Prospects 1
Prereq.: 27 credits in Sociology or permission of department chair. Capstone seminar examines sociologists in American society and influence of the discipline on social policy. Student portfolio review explores academic achievements, sociological understanding and career alternatives.
- SPAN 111 Elementary Spanish I 3
Open only to students with one year or less of high school study. Not open to native speakers of Spanish. No credit given to students who have received credit for SPAN 118. Through a direct conversational approach, foundations of Spanish linguistic structure are established. Skill Area III
- SPAN 112 Elementary Spanish II 3
Prereq.: SPAN 111 or equivalent (normally, two years high school study). Not open to native speakers of Spanish. Study of spoken and written Spanish is continued with analysis of Spanish language structure. No credit given to students with credit for three or more years of high school study or who have received credit for SPAN 118. Skill Area III [I]
- SPAN 118 Intensive Elementary Spanish 6
Open only to students with one year or less of Spanish at the high school level. Not open to native speakers of Spanish. No credit for students who have received credit for SPAN 111 and/or SPAN 112. 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. Only three credits may be applied toward the International requirement. Skill Area III [I]
- SPAN 123 Basic Spanish Review 3
Prereq.: Three years of Spanish in high school or equivalent preparation. Refresher course in structure patterns and sound systems of the Spanish language. Open only to non-native speakers of Spanish. No credit will be given to those with credit for more than three years of high school study of Spanish. Skill Area III [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. Open only to non-native speakers of Spanish. No credit given to students with credit for more advanced course work in Spanish. Skill Area III [I]
- SPAN 126 Intermediate Spanish II 3
Prereq.: SPAN 125 or equivalent. Continuation of SPAN 125 with the study of grammatical structures. Open only to non-native speakers of Spanish. No credit given to students with credit for more advanced course work in Spanish. Skill Area III [I]
- SPAN 128 Intensive Intermediate Spanish I 6
Prereq.: One year of college Spanish or equivalent. Equivalent to SPAN 125-126. Development of speaking, reading and writing skills, and awareness of Hispanic cultures. Review of selected grammar. No credit given to students with more advanced Spanish coursework. Six classroom hours per week. Open only to non-native speakers of Spanish. Fall, Spring, Summer. Skill Area III [I]
- SPAN 190 Spanish for Spanish Speakers I 3
Prereq.: Permission of instructor. Designed to improve diction, reading and writing skills, and to study grammar of standard Spanish and dialect variations. Short stories, plays, and newspaper articles are read and discussed. Open only to native speakers of Spanish, Fall. Skill Area III [I]
- SPAN 191 Spanish for Spanish Speakers II 3
Prereq.: Permission of instructor. Continuation of SPAN 190. Further study of grammar and additional practice in diction, reading, and writing. Eligible Spanish speakers will take this course in place of SPAN 126. Spring. Skill Area III [I]
- SPAN 225 Intermediate Spanish III 3
Prereq.: SPAN 126 or permission of instructor. Designed to help students improve speaking skills through the discussion of contemporary texts. Further study of grammar. Open only to non-native speakers of Spanish. Fall. Skill Area III [I]
- SPAN 226 Intermediate Spanish IV 3
Prereq.: SPAN 225 or permission of instructor. Designed to help students improve writing skills by means of frequent composition. Further study of grammar. Open only to non-native speakers of Spanish. Spring. Skill Area III [I]
- SPAN 261 Business Spanish 3
Prereq.: SPAN 190 or 225, or permission of instructor. Development of skills geared to specific situations which would be encountered in business offices, foreign firms, travel agencies, and the like. Fall. Skill Area III [I]
- SPAN 290 Spanish for Spanish Speakers III 3
Prereq.: SPAN 191 or permission of instructor. Designed to review Spanish grammar and to improve writing, reading and diction skills. Discussion of cultural topics and further study of grammar. Fall. Skill Area III [I]

SPANISH

- SPAN 291 Spanish for Spanish Speakers IV 3
Prereq.: SPAN 290 or permission of instructor. Continuation of SPAN 290. Further work in Spanish grammar designed to improve writing, reading and diction skills. Emphasis on discussion of cultural topics. Spring. Skill Area III [I]
- SPAN 300 Literary Analysis 3
Prereq.: SPAN 226 or 291 (may be taken concurrently), or permission of instructor. Taught in Spanish. Instruction in the techniques of literary analysis as an instrument for the development of critical reading ability, and as a necessary step in literary research. Fall. [I]
- SPAN 304 Literary Masterpieces to 1700: Spain 3
Prereq.: SPAN 300 (may be taken concurrently); or permission of instructor. Taught in Spanish. Introduction to great literary works of Spain from the Middle Ages to 1700. Fall. Study Area I [I] [L]
- SPAN 305 Literary Masterpieces since 1700: Spain 3
Prereq.: SPAN 300 (may be taken concurrently). Taught in Spanish. Introduction to the major works in Spanish literature since 1700. Spring. Study Area I [I] [L]
- SPAN 315 Spanish Civilization 3
Prereq.: SPAN 226 or 291 (may be taken concurrently). Taught in Spanish. Cultural evolution of Spain with emphasis on modern period. Fall. Study Area II [I]
- SPAN 316 Latin American Civilization 3
Prereq.: SPAN 226 or 291 (may be taken concurrently). Taught in Spanish. Cultural evolution of Latin America with emphasis on modern period. Spring. Study Area II [I]
- SPAN 335 Advanced Spanish for Oral Expression 3
Prereq.: SPAN 226 or 291. Taught in Spanish. Development of oral proficiency through discussion of readings and films. Fall. [I]
- SPAN 336 Advanced Spanish Composition 3
Prereq.: SPAN 226 or 291. Taught in Spanish. Advanced practice in Spanish based on readings, translations, and frequent compositions. Spring. [I]
- SPAN 371 Poetry and Drama of the Golden Age 3
Prereq.: SPAN 300 or permission of instructor. Taught in Spanish. 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 375 Spanish American Literature I 3
Prereq.: SPAN 300 or permission of instructor. Taught in Spanish. Study of selected writings of major Spanish-American authors from the age of discovery and the colonial period up to the end of the nineteenth century. Fall. Study Area I [I] [L]
- SPAN 376 Spanish American Literature II 3
Prereq.: SPAN 300 or permission of instructor. Taught in Spanish. Readings and interpretation of great works of Spanish American literature from end of Romanticism to present. Spring. Study Area I [I] [L]
- SPAN 441 Cross-Cultural Communication 3
Prereq.: Permission of instructor. Open only to non-native speakers of Spanish. Development of fluency in oral expression. Speech analysis and phonetic theory to improve pronunciation and intonation. Introduction to problems of translation, enhancement of oral competence, and development of cross-cultural understanding. Fall. (E) [I]
- SPAN 461 Topics in Spanish-American Literature 3
Prereq.: Permission of instructor. Taught in Spanish. Detailed study of a literary figure, movement, or theme. May be repeated with different topics for a maximum of six credits. Irregular. [I]

SPECIAL EDUCATION

- SPED 315 Introduction to Educating Learners with Exceptionalities 3
Prereq.: Admission to the Professional Program in Teacher Education. Examines growth and development of learners with exceptionalities, including gifted and talented and those who may require special education, and methods for identify-

ing, planning for, and working effectively with these populations in educational settings. Meets State of Connecticut requirement for teacher certification. Field experience required.

- SPED 423 Assessment, Instruction and Curricular Adaptations for Preschoolers 3
Prereq.: Admission into the Professional Program. Development of Individualized Education Programs, adapting curricula, and the utilization of assessment and teaching strategies to promote the development and independence of preschoolers with disabilities in community and integrated school settings. Taken concurrently with EDEC 423. Field experience required.
- SPED 498 Independent Study in Special Education 1 to 3
Directed independent studies in special education. May be repeated for a total of 6 credits.

STATISTICS

- STAT 104 Elementary Statistics 3
Prereq.: MATH 101 (C- or higher) or Placement Exam. 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, 314 or 315. Skill Area II
- STAT 108 Introduction to Biostatistics 3
Prereq.: MATH 101 (C- or higher) or Placement Exam. 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, 314, or 315. Skill Area II
- STAT 200 Business Statistics 3
Prereq.: MATH 101 (C- or higher) or Placement Exam. 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, 314, or 315. Skill Area II [c]
- 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 or 453. [c]
- STAT 215 Statistics for Behavioral Sciences I 3
Prereq.: MATH 101 (C- or higher) or Placement Exam. 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, 314 or 315. Skill Area II
- STAT 216 Statistics for 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. No credit given to students with credit for STAT 201, 416 or 453. Spring. Skill Area II

- STAT 314 Introductory Statistics for Secondary Teachers 3
Prereq.: MATH 218 and 221. Techniques in probability and statistics necessary for secondary school teaching. Topics include sampling, probability, probability distributions, simulation, statistical inference, and the design and execution of a statistical study. Computers and graphing calculators will be used. No credit given to those with credit for STAT 201, 216 or 453. Graphing calculator required. Fall. [c]
- 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). Fall.
- STAT 321 Elementary Data Mining 3
Prereq.: STAT 104 or STAT 200 or STAT 215 or STAT 315. Introduction to basic concepts behind data mining. Survey of data mining applications, techniques and models. Discussion of ethics and privacy issues with respect to invasive use. Introduction to data mining software suite. Fall.
- STAT 322 Data Mining Techniques 3
Prereq.: STAT 321; STAT 201 or STAT 216 or STAT 416 or STAT 453. Exploration of data mining methodologies. Topics include decision tables, decision trees, classification rules, association rules, clustering, statistical modeling, and linear models. More extensive use of data mining software. Spring.
- STAT 323 Applications of Data Mining 3
Prereq.: STAT 322; MATH 152 (formerly MATH 122); MATH 218. Capstone course for Certificate in Data Mining. Case studies using large data sets taken from real-life applications. Discussion of problems encountered with large data sets. Extensive use of data mining software. Fall.
- 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 425 Loss and Frequency Distributions and Credibility Theory 3
Prereq.: STAT 416 (may be taken concurrently). Topics chosen from credibility theory, loss distributions, simulation, and time series. Spring. (E)
- STAT 453 Applied Statistical Inference 3
Prereq.: STAT 104. 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. No credit given to students with credit for STAT 201 or 216. Fall.
- STAT 455 Experimental Design 3
Prereq.: STAT 201 or 216 or 416. Introduction to experimental designs in statistics. Topics include completely randomized blocks, Latin square, and factorial experiments. Fall. (O)
- STAT 456 Statistics Laboratory 3
Prereq.: CS 151 and STAT 201 or 216 or equivalent. Study of SAS, one of the major statistical analysis packages. Spring. (E) [c]
- STAT 465 Nonparametric Statistics 3
Prereq.: STAT 201 or 216 or 416. 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. (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

Note: Laboratory courses designed to develop technical competence; for majors in Technology Education, Industrial Technology and Engineering Technology, and, where indicated, to satisfy General Education requirements.

- TC 405 Applied Technical Topics 1 to 3
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. Irregular.

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. Study Area II
- 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 213 Electrical Energy 3
A study the electrical nature of matter, its conduction and magnetic properties. Focus on the behavior of electricity as a phenomenon.
- TE 214 Mechanical Energy 3
A study of laws and concepts involved in the conversion, transmission, and control of mechanical energy. Experiences will include the analysis of common mechanical and fluid- mechanical circuits.
- TE 215 Materials Processing 3
A laboratory course to develop concepts involved in the efficient processing of multiple materials. Appropriate hand tools and equipment are employed to demonstrate the relationship between materials, properties and processes. Attention is given to procedures common to a variety of manufactured products. Fall.
- TE 399 Professional Strategies of Technology Education Teaching 3
Prereq.: TE 199 or permission of department chair. Development of knowledge and skills needed by an individual to function as a professional technology education teacher. Preparation, presentation and evaluation of student-developed lessons and methods of student assessment, unique to technology education laboratories, will be emphasized. Fall.
- TE 400 Teaching of Technology Education 3
Prereq.: Admission 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.: CET 113, MFG 121 and GRT 212; for graduate students, admission to M.S. program in technology education. 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 graphics, desktop publishing, video, and telecommunications. Lecture/lab.
- TE 411 Animation Graphics 3
Prereq.: GRT 112 or MFG 121 or ETC 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
Prereq.: CET 113; for graduate students, admission to M.S. program in technology education. 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. [c]

TE 420 Manufacturing Systems 3
Prereq.: MFG 118 and TE 215; for graduate students, admission to M.S. program in technology education. 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. Fall.

TE 428 Research and Experimentation 3
Prereq.: Completion of 18 hours of CET, EMEC, MFG, GRT, or TE courses; for graduate students, permission of department chair. 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.

TE 430 Transportation Systems 3
Prereq.: EMEC 114, TE 213 and TE 214; for graduate students, admission to M.S. program in technology education. 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. Spring.

TE 445 Construction Systems 3
Prereq.: TE 215 (formerly TC 215); for graduate students, admission to M.S. program in technology education. Comprehensive study of carpentry and related construction industries. Emphasis toward gaining modern concept of wood technology. Fall.

TE 450 Technological Enterprise 3
Prereq.: Junior standing and TE 420; for graduate students, admission to the M.S. program in technology education. Synthesis of the production, transportation, and communication systems used to organize and operate an entrepreneurial business endeavor through laboratory application. Lecture/lab. Spring.

TE 459 Elementary School Technology Education 3
Technology education activities suitable for elementary school. Integrating such activities with elementary curricula. Irregular.

TE 488 Independent Study in Technology Education 1 to 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 demand.

THEATRE

TH 101 Performance Practicum 1
Provides an hour per week for students to coordinate production activities for all theatre department shows. These activities might include backstage work, publicity, performance or direction. This hour will also include regular workshops on topics relevant to the theatre industry. Course to be repeated 6 times for majors, 3 times for minors.

TH 110 Introduction to Theatre 3
Introduction to theatre as a social institution. Students are required to attend Theatre Department productions. Study Area I

TH 111 Stagecraft 0 or 3
Constructing and rigging scenery for different stages. Two lectures and average of two hours laboratory work per week. Study Area I

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-

house management, or performance. An average of three hours laboratory work per week is required. May be repeated for maximum of 6 credits.

TH 117 Lighting 3
Lighting techniques in modern theatre practice. Two lectures per week. Study Area I

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. Study Area I

TH 126 Makeup I 2
Laboratory course in stage makeup. Crew assignments on theatre productions are normally required. One two-hour session per week. Fall. Study Area I

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. Study Area I

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. Study Area I

TH 145 Acting I 3
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. Study Area I

TH 211 Rendering and Drawing for the Stage 2
Prereq.: TH 111 and 121. Studio course covering the various media 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. 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)

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 TH 213. Meets for two hours twice each week. Irregular.

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)

TH 222 History of Fashion 3
Study of the history of dress stressing the influences of culture upon fashion and original period research for the theatre. Spring. (E) Study Area I [I]

TH 235 Theatre Movement I 2
Prereq.: DAN 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 character.

- TH 146 Acting II** 3
 Prereq: TH 145. Continuation of TH 145. Emphasis on basic techniques of acting including introduction to scene study and characterization. Fall. Study 1001
- TH 151 Stage Management** 1
 Prereq: TH 111 and 113 or permission of instructor. Study of business, duties and methods of operation of the stage manager to include a study of the Actor's Equity Association contract.
- TH 153 Script Analysis for the Theatre** 3
 Reading and analysis of plays from various periods and countries. Focus on one analysis from viewpoint of chosen actor. Director's work assigned. Fall. Study 1001
- TH 155 American Theatre Today** 3
 Survey of theatre in America with special focus on current developments. Topics include: organizational structure, social and cultural objectives, economic factors, middle theatre, theatre education, multi-culturalism, and new plays. May include field trip, video change, regularly given projects and research on selected subject. Spring. (S) Study 1001
- TH 156 Scene Design** 3
 Prereq: TH 111 and 117 and departmental permission. Designing scenery for various kinds of plays and plays. Work on ground plans and elevations, perspective drawing and finished design. Fall. (S)
- TH 158 Lighting Design** 3
 Prereq: TH 111, 117. Lighting design and layout for the production, open and semi-open. Special emphasis on design problems, equipment and control systems. Spring. (S)
- TH 159 Makeup II** 1
 Prereq: TH 116 or prior permission of instructor. Advanced makeup projects with attention to make-up and prosthetics. Class assignments on theatre productions are normally required. One two-hour session per week. Open to Theatre majors only. Fall. (S)
- TH 160 Design Theatre** 1
 Prereq: Major or minor in Theatre and permission of instructor. Effort to solve design problems through individual lessons and coaching with design master participating in 1950 project requirements. May be repeated for a total of six credits.
- TH 161 Costume Design** 3
 Prereq: TH 111, 112 and permission of instructor. Designing costumes for various kinds of plays. Work on design renderings and patterns for construction of costumes. Spring. (S)
- TH 166 Advanced Voice Development** 3
 Prereq: TH 155. Expanding and developing range, flexibility and volume of the speaking voice to dramatic performance. Development of effective articulation. Fall.
- TH 167 Acting III** 3
 Prereq: TH 146, 148 or permission of instructor. Performance considerations in scene study and character development, as well as self-scripted plays. Two lectures and one two-hour lab per week. Spring.
- TH 169 Directing for the Stage** 3
 Prereq: TH 153. 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. (S)
- TH 175 History of Theatre I** 3
 Theatre from Classical Greece to 18th century including physical theatre, acting style and other elements of production. Spring. (S)
- TH 176 History of Theatre II** 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. (S)

- TH 147 Acting IV** 3
 Prereq: TH 146 and departmental permission. Performance considerations in scene study and role development with emphasis on plays of varying styles and different periods. Fall. (S)
- TH 148 Shakespearean Prose** 3
 Prereq: TH 153 and 155 or permission of instructor. Study of selected plays from perspective of actor and director. Sections set in and stage scenes in table requirements. Irregular.
- TH 149 Creative Dramatics for Children** 3
 Trains students to develop the imagination, creativity and communication skills of children ages 7 through 12. Includes pantomime, theatre games, improvisation and formal theatre experiences. Spring.
- TH 162 Professor Dance** 1 to 3
 Prereq: Permission of instructor. Individual projects in choreography, research or production under the guidance of Dance Theatre staff. Irregular.
- TH 163 Professor Scenery** 1 to 3
 Prereq: TH 116 and departmental permission. Individual projects in scenery, research or production under guidance of member of Theatre staff.
- TH 164 Professor Costuming** 1 to 3
 Prereq: TH 111 and departmental permission. Individual projects in costuming, research or production under guidance of member of Theatre staff.
- TH 165 Professor Acting I** 1 to 3
 Prereq: TH 117 and prior standing and departmental permission. Individual projects in acting, research or production under guidance of member of Theatre staff.
- TH 168 Professor Acting II** 1 to 3
 Prereq: TH 165 and departmental permission. Individual projects in acting, research or production under guidance of member of Theatre staff.
- TH 166 Professor Lighting Sound Stage Management** 1 to 3
 Prereq: TH 116 and departmental permission. Individual projects in acting, research or production under guidance of member of Theatre staff.
- TH 167 Professor Research** 1 to 3
 Prereq: TH 114 or departmental permission. Individual projects in acting, research or production under guidance of member of Theatre staff.
- TH 168 Professor Directing** 1 to 3
 Prereq: TH 153 and departmental permission. Individual direction of student production under faculty supervision.
- TH 169 Studies in Theatre Drama** 3
 Prereq: Permission of instructor. Selected area of theatre and/or drama not covered in other courses. Top's varies. May be repeated for credit. Irregular.
- TH 190 Summer Theatre Workshop** 3
 Prereq: Permission of instructor. Students work with experienced directors in a summer theatre production workshop, learning the craft of acting and performing, culminating in a public performance. May be repeated for a maximum of 6 credits. Summer.
- TH 195 Theatre Internship** 3 to 6
 Prereq: Permission of department. Substantial work in approved area, regional theatre, offering experience or research opportunities. Available on campus. May be repeated for a total of 12 credits. On demand.

TOURISM AND HOSPITALITY STUDIES

- THS 410 Tourism and Hospitality Operations** 3
 Prereq: GEOG 190 and MGT 318. Examination of the operational dimensions of the spectrum of tourism and hospitality-oriented attractions and services. This may include topics such as gaming operations, occupancy analysis, tour reports, and tour operations. Fall.

THS 490 Current Topics in Tourism and Hospitality 3
Prereq.: GEOG 290 and MKT 308. Analysis and evaluation of current topics and issues that confront the tourism/hospitality industry. Course may include on-site facility visits and guest lectures from industry professionals. May be repeated for up to 6 credits. Spring.

URBAN STUDIES

URS 300 Introduction to Urban Studies 3
Interdisciplinary introduction to America's cities. Provides perspectives on urban issues and problems with an emphasis on Greater Hartford as a laboratory. Course serves as a foundation for the Urban Studies minor. Fall. Study Area III URS

URS 420 Internship in Urban Studies 3
Prereq.: URS 300, nine additional credits in Urban Studies minor, permission of supervising department chair and a 3.0 GPA. Practical experience working with agencies active in dealing with the issues and problems of urban communities. On demand. URS

URS 430 Readings in Urban Studies 3
Prereq.: URS 300, nine additional credits in Urban Studies minor, permission of supervising department chair and a 3.0 GPA. Directed independent study in Urban Studies. On demand. URS

VOCATIONAL-TECHNICAL EDUCATION

Note: Courses designed to develop professional competence; for students seeking certification in Vocational Technical Education and special studies majors with a specialization in Vocational-Technical Education.

VTE 113 Introduction to Teaching Vocational Technical Education 3
Introduction and application of current learning theories, Connecticut teaching standards, motivational theories, classroom management, assessment techniques, laboratory safety procedures, and basic writing of lesson plans and behavioral objectives as applied to vocational technical education. Fall, Spring, Summer.

VTE 116 Teaching Vocational Technical Education 3
Prereq.: VTE 113. Students develop sample planning units and present prepared lessons unique to vocational technical education that include theory, demonstration, and teaching strategies. Development of portfolios based on the BEST program will be integrated into the course. Fall, Spring, Summer.

VTE 328 Shop Organization and Management 3
Physical aspects of vocational schools and shops. Purchase and inventory of supplies, surplus of equipment, 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. Laboratory 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 vocational subjects that is reflective of BEST Portfolios. 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.

VTE 421 Occupational Specialization 25
Award of academic credit for occupational experience. Candidates must demonstrate technical knowledge and manipulative skills by passing a written and performance examination. Open to any vocational technical instructor enrolled in the baccalaureate program. On demand.

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. Fall.

VTE 450 Principles and Organizations 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 to 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. On demand. (Contact the Coordinator/Advisor, School of Technology, 832-1807, prior to registration.) On demand.

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. Study Area III

WS 400 Feminist Theory 3
Prereq.: WS 200 or permission of instructor. Examination of central theoretical and critical concepts, ideas and traditions in the development of feminist theory. Spring.

WORD PROCESSING

WP 204 Introduction to Word Processing 1
Introduction to a popular word processing software package. Includes document creation, editing, formatting, printing, archiving, and some specialized software features. Irregular. [c]

FACULTY, ADMINISTRATIVE STAFF, LIBRARIANS

Note: Date of appointment to Central Connecticut State University in parenthesis.

RICHARD L. JUDD, Ph.D., University of Connecticut; *President (1964)*.

DISTINGUISHED PROFESSORS:

HENRY C. LEE, Ph.D., New York University; *Distinguished Professor of Criminology and Criminal Justice (1995)*.
To be named — *Robert C. Vance Distinguished Professor of Journalism and Mass Communication*

CSU PROFESSOR:

NORTON H. MEZVINSKY, Ph.D., University of Wisconsin; *CSU Professor of History (1967)*.

ENDOWED CHAIR HOLDERS:

MIECZYSLAW B. BISKUPSKI, Ph.D., Yale University; *holder of the Stanislaus A. Blejwas Endowed Chair in Polish and Polish American Studies and Professor of History (2002)*.
WILLIAM A. O'NEILL, *Honorary Professor of Political Science and holder of the William A. O'Neill Endowed Chair in Public Policy and Practical Politics (2000)*.

FACULTY, ADMINISTRATIVE STAFF, LIBRARIANS:

ELIZABETH N. AARONSOHN, Ed.D., University of Massachusetts; *Associate Professor of Teacher Education (1991)*.
HELEN R. ABADIANO, Ph.D., Ohio State University; *Associate Professor of Reading and Language Arts (1992)*.
FATEMEH ABDOLLAHZADEH, Ph.D., Loughborough University; *Professor of Computer Science (1989)*.
FAROUGH ABED, Ed. D., Indiana University; *Professor of Educational Leadership (1993)*.
STEPHEN ADAIR, Ph.D., Northeastern University; *Associate Professor of Sociology and Social Work (1997)*.
ABIGAIL E. ADAMS, Ph.D., University of Virginia; *Associate Professor of Anthropology (1996)*.
DON ADAMS, Ph.D., Cornell University; *Associate Professor of Philosophy (1998)*.
MIKE ALEWITZ, M.F.A., Massachusetts College of Art; *Assistant Professor of Art (2000)*.
JEAN ALICANDRO, M.S., Central Connecticut State University; *Assistant Director, Student Center (1984)*.
PAUL L. ALTIERI, Ph.D., Boston College; *Assistant to the Dean of Arts and Sciences and Professor of Economics (1975)*.
GABRIEL D. ALUNGBE, Ph.D., P.E., University of Florida; *Assistant Professor of Engineering Technology (1991)*.
MARIA ALVAREZ, B.A., Central Connecticut State University; *Acting Associate Registrar (1983)*.
BETH AMTER, B.A., Southern Connecticut State University; *Assistant Director of Recruitment and Admissions, (1997)*.
PAMELA P. ANNESER, M.F.A., Yale University; *Assistant Professor of Design (Graphic/Information) (2002)*.
MICHAEL ANSARRA, M.S., Southern Connecticut State University; *Associate Director of Athletics for Compliance, Intercollegiate Athletics (1988)*.
ALI A. ANTAR, Ph.D., University of Connecticut; *Professor of Physics and Earth Sciences (1980)*.
MICHAEL ARCHICK, B.S., Central Connecticut State University; *Server Administrator, Information Technology Services (2001)*.
JAMES V. ARENA, Ph.D., University of Connecticut; *Professor of Chemistry (1989)*.
RICHARD I. ARENDS, Ph.D., University of Oregon; *Interim Provost and Vice President for Academic Affairs and Professor of Educational Leadership (1991)*.
CLAUDIA ARIAS-CIRINNA, M.S., Central Connecticut State University; *Assistant Director, Residence Life (1999)*.
DOMINGO ARIAS, M.A., University of Chile; *Assistant Director, Career Services and Cooperative Education (1991)*.
KEITH AUGUST, B.S.E.T., Central Connecticut State University; *Qualified Engineering Technician, ITBD (2001)*.

LOUIS E. AULD, Ph.D., Bryn Mawr College; *Professor of Modern Languages (1987)*.
CAROL SHAW AUSTAD, Ph.D., North Texas State University; *Professor of Psychology (1987)*.
ARAM AYALON, Ph.D., University of Arizona; *Associate Professor of Teacher Education (2001)*.
RICHARD BACHOO, M.P.A., University of Connecticut; *Chief Administrative Officer (1998)*.
CATHERINE R. BARATTA, Ph.D., Syracuse University; *Associate Professor of Sociology and Social Work (1998)*.
LINDA A. BARILE, Ph.D., University of Connecticut; *Associate Professor of Nursing (1995)*.
STUART BARNETT, Ph.D., State University of New York-Buffalo; *Professor of English (1992)*.
CANDACE BARRINGTON, Ph.D., Duke University; *Assistant Professor of English (2001)*.
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)*.
PETER F. BAUMANN, Ph.D., Polytechnic University; *Assistant Professor of Engineering Technology (2001)*.
MITCHELL BECK, Ed.D., Wayne State University; *Professor of Special Education (1997)*.
MARSHA BEDNARSKI, Ph.D., University of Connecticut; *Associate Professor of Physics and Earth Sciences (1998)*.
DANIEL BEELER, B.S., Regents College; *Support Assistant, Information Technology Services (1995)*.
ZAKRI BELLO, Ph.D., Virginia Polytechnic Institute and State University; *Associate Professor of Finance (2002)*.
RICHARD W. BENFIELD, Ph.D., University of Oklahoma; *Associate Professor of Geography (1997)*.
JEFFREY C. BENNER, B.A., Central Connecticut State University; *Campus One Card Administrator, Card Office (2003)*.
STUART R. BENNETT, Ph.D., Texas A & M University; *Professor of Manufacturing and Construction Management (1980)*.
DOUGLAS BENOIT, B.A., Central Connecticut State University; *Assistant Director of Recruitment and Admissions (1999)*.
FRANK G. BENSICS, Ph.D., University of Pennsylvania; *Assistant Professor of Mathematical Sciences (2001)*.
JAY BERGMAN, Ph.D., Yale University; *Professor of History (1990)*.
FELTON BEST, Ph.D., Ohio State University; *Professor of Philosophy (1991)*.
KAREN C. BEYARD, Ph.D., Arizona State University; *Professor of Educational Leadership (1986)*.
LISA MARIE BIGELOW, M.B.A., Central Connecticut State University; *Associate Director, George R. Muirhead Center for International Education (1987)*.
RICHARD BISHOP, M.S.A., University of Notre Dame; *Director of Financial Aid (2001)*.
M. B. BISKUPSKI, Ph.D., Yale University; *holder of the Stanislaus A. Blejwas Endowed Chair in Polish and Polish American Studies and Professor of History (2002)*.
DONALD BIXLER, *Customer Support Center Assistant, Information Technology Services (1999)*.
ROBERT E. BLATZ, JR., LL.M., New York University School of Law; J.D., University of Detroit School of Law; *Professor of Accounting (1999)*.
DAVID BLITZ, Ph.D., McGill University; *Professor of Philosophy (1989)*.
THOMAS BOHLKE, B.S., Central Connecticut State University; *Computer Repair Technician, Information Technology Services (2000)*.
LYNN BONESIO, M.S., Eastern Connecticut State University; *Enterprise Resource Planning Manager, Information Technology Services (1990)*.
JOSEPH BONNICI, Ph.D., University of Georgia; *Professor of Marketing (2002)*.
FRED BONVICINI, M.S., Central Connecticut State University; *Associate Director, Residence Life (1980)*.
MOLLY BORST, M.S., Central Connecticut State University; *Assistant Athletics Director for Compliance, Intercollegiate Athletics (1995)*.

CONSTANCE C. BOSTON, M.S.W., L.C.S.W., University of Connecticut; *Director of Prevention and Counseling Services (1987)*.
RICHARD LAMAR BOUTWELL, B.A., Louisiana State University; *Assistant Women's Basketball Coach (2002)*.
LAURA BOWMAN, Ph.D., Kent State University; *Professor of Psychology (1989)*.
RITA BRANN, B.A., Central Connecticut State University; *Associate Director of Continuing Education and the Enrollment Center (1979)*.
GWENDOLINE O. BRATHWAITE, M.S., Central Connecticut State University; *Property and Inventory Control Coordinator (1989)*.
SHARON BRAVERMAN, M.S., Central Connecticut State University; *Assistant Dean, School of Business (1992)*.
JODI BRIGGS, M.S., Central Connecticut State University; *Assistant to the Director/Residence Hall Director, Residence Life (2000)*.
CASSANDRA BROADUS-GARCIA, Ph.D., Ohio State University; *Associate Professor of Art (1994)*.
THOMAS BRODEUR, B.A., University of Connecticut; *Purchasing Manager (1989)*.
SANDRA FAE BROWN-BREWTON, J.D., Drake University Law School; *Employment and Labor Specialist, Personnel (2002)*.
JAMES BRUNER, B.S., Daniel Webster College; *Business Manager, ITBD (1994)*.
JAMES BRYANT, *Administrative Coordinator, Design (Graphic/Information) (1998)*.
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THOMAS BURKHOLDER, Ph.D., University of Virginia; *Associate Professor of Chemistry (1992)*.
WENDY WILTON BUSTAMANTE, B.S., Central Connecticut State University; *Administrative Assistant to the President (1986)*.
JAMES BUXTON, M.F.A., University of Pennsylvania; *Professor of Art (1991)*.
GLORIA MARIE CALIENDO, Ph.D., University of Connecticut; *Associate Professor of Modern Languages (1991)*.
THOMAS J. CALLERY, JR., M.F.A., University of Oregon; *Associate Professor of Theatre (1983)*.
JOAN M. CALVERT, Ed.D., University of Massachusetts, Amherst; *Professor of Computer Science and Director of Computer Information Technology (1982)*.
RICHARD CAMPBELL, B.S., Central Connecticut State University; *Programmer Specialist, Information Technology Services (2001)*.
BARBARA A. CANDALES, Ph.D., University of Connecticut; *Associate Professor of Sociology and Social Work (1995)*.
LUCY CANNAMELA, *Budget Assistant, Fiscal Affairs (1979)*.
ANTHONY CANNELLA, M.A., University of Pennsylvania; *Associate Professor of English (1984)*.
ANTONE B. CAPITAO, Ph.D., University of Connecticut; *Professor of Physical Education and Health Fitness Studies (1971)*.
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DOUGLAS R. CARTER, Ph.D., University of Illinois; *Professor of Biological Sciences (1991)*.
CAROL J. CARTER-LOWERY, Ed.D., University of Massachusetts; *Professor of Educational Leadership (1991)*.
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- STEVEN CAVALERI, Ph.D., Rensselaer Polytechnic Institute; *Professor of Management and Organization (1980).*
- CYNTHIA B. CAYER, M.S., Central Connecticut State University; *Director of Development and Alumni Affairs (1988).*
- KIMBERLY CHAGNON, M.S. Central Connecticut State University; *Director of Budget and Accounting, Budget Office (1998).*
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- ADOLFO CHAVARRO, Ph.D., State University of New York-Stonybrook; *Professor of Psychology (1987).*
- YUANQIAN CHEN, Ph.D., University of Kansas; *Professor of Mathematical Sciences (1992).*
- ANGELA CHOINSKI, B.A., Eastern Connecticut State University; *Assistant Director of Business Services (2002).*
- PAUL P. CHU, Docteur en Sciences Psychologiques, Université Libre De Bruxelles; *Associate Professor of Psychology (1969).*
- RICHARD CHURCHILL, M.L.S., University of Rhode Island; *Associate Librarian, Head of Government Documents (1992).*
- NINA CICCHETTI, M.S., Central Connecticut State University; *Director of Residence Life (1984).*
- SALVATORE CINTORINO, M.S., Central Connecticut State University; *Assistant Chief Administrative Officer, Administrative Affairs (1992).*
- MATTHEW H. CISCEL, Ph.D., University of South Carolina; *Assistant Professor of English (2002).*
- GEORGE F. CLAFFEY, Ed.D., Indiana University; *Associate Professor of Management Information Systems (1979).*
- JACQUELINE COBBINA-BOIVIN, M.S., Central Connecticut State University; *Director, Ruthe Boyea Women's Center (2000).*
- SARAH COBRAN, M.A., Bowling Green State University; *Assistant Director, Career Services and Cooperative Education (1985).*
- PENELOPE N. COE, Ph.D., Brandeis University; *Associate Professor of Mathematical Sciences (1966).*
- BONNIE L. COFER, M.Ed., Springfield College; *Immigration Specialist, George R. Muirhead Center for International Education (1997).*
- JONAH COHEN, M.S., Central Connecticut State University; *Director, Academic Center for Student Athletes (2000).*
- RALPH S. COHEN, Ph.D., University of Missouri-St. Louis; *Associate Professor of Counseling and Family Therapy (1993).*
- STEPHEN A. COHEN, Ph.D., University of California, Irvine; *Assistant Professor of English (2002).*
- JAMES M. CONWAY, Ph.D., University of Connecticut; *Associate Professor of Psychology (1998).*
- MARY ANN COSTA, M.A., Central Connecticut State University; *Science Technical Specialist, Biological Sciences (2000).*
- STEPHEN COX, Ph.D., Michigan State University; *Associate Professor of Criminology and Criminal Justice (1996).*
- TIMOTHY CRAINE, Ph.D., Wayne State University; *Professor of Mathematical Sciences (1993).*
- ROBERT CROUSE, Ph.D., University of Rhode Island; *Professor of Mathematical Sciences (1987).*
- GUY CRUNDWELL, Ph.D., Purdue University; *Associate Professor of Chemistry (1998).*
- GAIL A. CUETO, Ph.D., New York University; *Associate Professor of Teacher Education (1994).*
- MARY M. CUTLER, Ph.D., University of Connecticut; *Professor of Finance (1987).*
- KATHY CZYRNIK, Ph.D., University of Connecticut; *Assistant Professor of Finance (1998).*
- DANIEL D'ADDIO, D.M.A., University of Michigan; *Associate Professor of Music (1996).*
- MICHAEL D'ARCY, B.A., Methodist College; *Women's Soccer Head Coach, Intercollegiate Athletics (2000).*
- RONALD R. DAIGLE, Ph.D., Clark University; *Professor of Economics (1976).*
- REGINA KLONIS DARDZIENSKI, M.S., Central Connecticut State University; *Assistant Director of Media Services, Graphic Design (1981).*
- TENNYSON T. DARKO, M.B.A., Old Dominion University; *PC Support Manager, Information Technology Services (1988).*
- BARRY A. DAVIES, Ed.D., University of Maine; *Associate Professor of Reading and Language Arts (1976).*
- MICHAEL A. DAVIS, Ph.D., Harvard University; *Associate Professor of Biological Sciences (1998).*
- SUSAN DAVIS, *Professional Development Specialist, ITBD (1998).*
- BRUCE P. DAY, Ph.D., University of New Hampshire; *Assistant Professor of Sociology and Social Work (1998).*
- RAY A. DeCORMIER, Ph.D., University of Bradford Management Center (UK); *Professor of Marketing (1983).*
- JOSÉ-CARLOS DEL AMA, Ph.D., Johannes-Gutenberg Universität (Germany); *Assistant Professor of Communication (2003).*
- JAMES A. DeLAURA, Ed.D., University of Northern Colorado; *Professor of Technology Education (1976).*
- PATRICIA DELOY, M.S., Central Connecticut State University; *Director, Career Services and Cooperative Education (1984).*
- THOMAS DELVENTHAL, M.F.A., University of Pittsburgh; *Assistant Professor of Theatre (1998).*
- BARBARA DeMAIO, *Assistant Director, Facilities Support Services (1995).*
- ELENE S. DEMOS, Ph.D., University of Wisconsin-Madison; *Senior Vice President (1991).*
- KENNETH DeSTEFANIS, B.S., Southern Connecticut State University; *Assistant Director of Intercollegiate Athletics, Facilities (1985).*
- MICHAEL S. DEVINE, B.S., Central Connecticut State University; *Server Systems Support Assistant, School of Technology (2003).*
- HOWARD DICKENMAN, M.S., Central Connecticut State University; *Professor of Intercollegiate Athletics and Men's Basketball Head Coach (1996).*
- JOANNE DiPLACIDO, Ph.D., Boston University; *Associate Professor of Psychology (1997).*
- TUAN DANG DO, M.S., Central Connecticut State University; *Programmer Specialist, Information Technology Services (1998).*
- FRANCISCO DONIS, Ph.D., CUNY Graduate Center; *Professor of Psychology (1992).*
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- DARYLL C. DOWTY, M.S., Central Connecticut State University; *Professor of Manufacturing and Construction Management (1979).*
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- KIMBERLEY A. DUMOUCHEL, B.S., University of Connecticut; *Assistant Director, Career Services and Cooperative Education (1988).*
- ROBERT DUNNE, Ph.D., Lehigh University; *Associate Professor of English (1992).*
- JEROLD J. DUQUETTE, Ph.D., University of Massachusetts-Amherst; *Associate Professor of Political Science (2000).*
- GHASSAN EL-EID, Ph.D., University of Nebraska; *Associate Professor of Political Science (1989).*
- DAVID ELLIOT, B.S., University of Michigan; *Assistant Football Coach, Intercollegiate Athletics (2001).*
- GLORIA EMEAGWALI, Ph.D., Ahmadu Bello University; *Professor of History (1991).*
- PARKER ENGLISH, Ph.D., University of Western Ontario; *Professor of Philosophy (1995).*
- DOUGLAS B. ENGWALL, Ph.D., State University of New York at Buffalo; *Professor of Psychology (1975).*
- KAREN BLOCK ENGWALL, M.Ed., University of Missouri-Columbia; *Associate Counselor, Prevention and Counseling Services (1995).*
- SCOTT ERARDI, M.A., University of Connecticut; *Manager of Internet Services, Marketing and Communication (1999).*
- MARY P. ERDMANS, Ph.D., Northwestern University; *Associate Professor of Sociology and Social Work (2002).*
- MICHAEL ERICKSEN, M.S., Central Connecticut State University; *Sports Conditioning Director, Intercollegiate Athletics (2001).*
- SCOTT EVON, M.S., Central Connecticut State University; *System Manager, Information Technology Services (1994).*
- SHERINATU O. FAFUNWA-NDIBE, M.F.A., University of Massachusetts; *Professor of Art (1990).*
- ELIZABETH FANGIULLO, A.S., Briarwood College; *Associate Bursar (1989).*
- KIMBERLY FARRINGTON, M.L.S., Southern Connecticut State University; *Assistant Librarian/Interlibrary Loan, Elibri Burritt Library (2001).*
- DAVID FEARON, Ph.D., University of Connecticut; *Professor of Management and Organization (1986).*
- KENNETH L. FEDER, Ph.D., University of Connecticut; *Professor of Anthropology (1977).*
- FRANCIS FELLETTER, M.B.A., Rensselaer Polytechnical Institute; *Construction Coordinator (1997).*
- CATHERINE FELLOWS, M.Ed., Boston University; *Associate Professor of Physical Education and Health Fitness Studies (1977).*
- RONALD J. FERNANDEZ, Ph.D., University of Connecticut; *Professor of Criminology and Criminal Justice (1969).*
- DOROTHY E. FINN, B.A., Smith College; *Assistant Director of Alumni Affairs (1993).*
- ROBERT M. FISCHBACH, Ph.D., Ohio State University; *Associate Professor of Communication (1979).*
- BARTON S. FISHER, B.A., Central Connecticut State University; *Coordinator of Athletic Development (1995).*
- GLYNIS FITZGERALD, Ph.D., State University of New York at Buffalo; *Assistant Professor of Communication (1998).*
- EDWARD FORCE, Ph.D., Indiana University; *Associate Professor of Modern Languages (1966).*
- DOMENIC FORCELLA, M.E.P., Yale School of Forestry and Environmental Studies; *Environmental Health/Safety Officer (1995).*
- CAROL A. FORD, Ph.D., University of Maryland; *Professor of Psychology (1969).*
- SUE FORD, *Project Assistant, Educational Leadership (1996).*
- JOHN FOSHAY, Ed.D., West Virginia University; *Assistant Professor of Special Education (2001).*
- PATRICK N. FOSTER, Ph.D., University of Missouri-Columbia; *Associate Professor of Technology Education (2001).*
- WALTON BROWN FOSTER, Ph.D., University of Michigan; *Professor of Political Science (1984).*
- KAREN FRANCINI, B.A., University of Connecticut; *Capital Project Administrator (1999).*
- FRANK J. FRANGIONE, Ph.D., University of Michigan; *Professor of Physical Education and Health Fitness Studies (1970).*
- H. JANE FRIED, Ph.D., Union of Experimenting Colleges and Universities; *Professor of Counseling and Family Therapy (1996).*
- FRANCIS J. GAGLIARDI, M.S., Southern Connecticut State University; *Associate Director of Library Services (1963).*
- SEAN GALLAGHER, M.F.A., University of Arizona; *Professor of Art (1993).*
- MICHAEL GANNON, B.S., University of Hartford; *University Engineer, Physical Plant (1999).*
- VICENTE G. GARCIA, M.F.A., University of North Texas at Denton; *Associate Professor of Art (1998).*
- MYRNA E. GARCIA-BOWEN, M.S., Eastern Connecticut State University; *Director of Recruitment and Admissions (1998).*
- ANTONIO GARCIA-LOZADA, Ph.D., University of Maryland; *Associate Professor of Modern Languages (1994).*
- PATRICIA GARDNER, M.S., Central Connecticut State University; *Assistant Director of Recruitment and Admissions (1995).*
- ALFRED GATES, P.E., Ph.D., University of Connecticut; *Associate Professor of Engineering Technology (1994).*
- MICHAEL GENDRON, Ph.D., State University of New York-Albany; *Associate Professor of Management Information Systems (2000).*
- LYNDA GEORGE, Ed.D., University of Hartford; *Assistant Professor of Teacher Education (2003).*
- GILBERT L. GIGLIOTTI, Ph.D., The Catholic University of America; *Professor of English (1992).*
- SUSAN GILMORE, Ph.D., Cornell University; *Assistant Professor of English (1997).*
- MARIETTE GIMMARTINO, *Assistant Registrar for Information Management, Registrar's Office (1988).*
- VICTORIA K. GINTER, M.S., C.R.C., Central Connecticut State University; *Wellness Administrator (2002).*
- NEIL M. GLAGOVICH, Ph.D., University of Pittsburgh; *Assistant Professor of Chemistry (1999).*

- ROBERT LEWIS GLARNER**, Ph.D., University of Arizona; *Assistant Professor of Music (1998)*.
- ELEANOR M. GODWAY**, Ph.D., York University; *Professor of Philosophy (1987)*.
- MARC B. GOLDSTEIN**, Ph.D., University of Michigan; *Professor of Psychology (1978)*.
- JOSEPH GORDON, JR.**, M.S., Central Connecticut State University; *Assistant Director of Development (1998)*.
- IVAN S. GOTCHEV**, Ph.D., Sofia University; *Associate Professor of Mathematical Sciences (2001)*.
- S. LOUISE GOULD**, Ed.D., Columbia University; *Assistant Professor of Mathematical Sciences (2000)*.
- SHAUN GREEN**, B.S.C., Davis and Elkins College; *Assistant Professor of Intercollegiate Athletics and Men's Soccer Head Coach (1986)*.
- JESSICA GREENEBAUM**, Ph.D., Syracuse University; *Assistant Professor of Sociology and Social Work (2000)*.
- BRIANN GREENFIELD**, M.A., Brown University; *Assistant Professor of History (2001)*.
- CYNTHIA GUERTIN**, B.A., St. Joseph's College; *Administrative Support Coordinator, English Department (1998)*.
- CHRISTIAN G. GUTIERREZ**, M.S., Central Connecticut State University; *Assistant Director of Recruitment and Admissions (1997)*.
- MARGARET HAASE**, M.S., Central Connecticut State University; *Assistant Professor of Computer Electronics and Graphics Technology (1977)*.
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Doctor of Health and Physical Education

David C. Campo '73, Head Coach, Dallas Cowboys Football ClubMay 22, 1999

Doctor of Humane Letters

Jimmy Carter, President of the United StatesApril 16, 1985

Ernest L. Boyer, President of the Carnegie Foundation for the Advancement of Learning.....October 5, 1987

Gerald R. Ford, President of the United StatesMarch 23, 1988

Mary Harwood Futrell, President of the National Education AssociationOctober 4, 1988

Benjamin L. Hooks, Executive Director of the NAACPMay 20, 1988

Mong Koo Chung, Chairman of the Hyundai Precision and Industry CompanyMay 26, 1989

Donald W. Davis, Chairman of The Stanley WorksMay 26, 1989

C. J. Huang, Chairman of the C. J. Huang FoundationMay 10, 1990

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Lieutenant Colonel Bertram W. Wilson, Connecticut Tuskegee Airmen.....May 26, 2001

Doctor of Laws

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George H. W. Bush, President of the United StatesMarch 11, 1999

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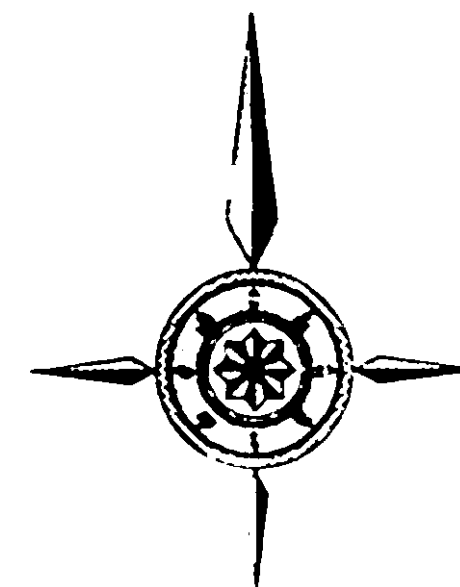
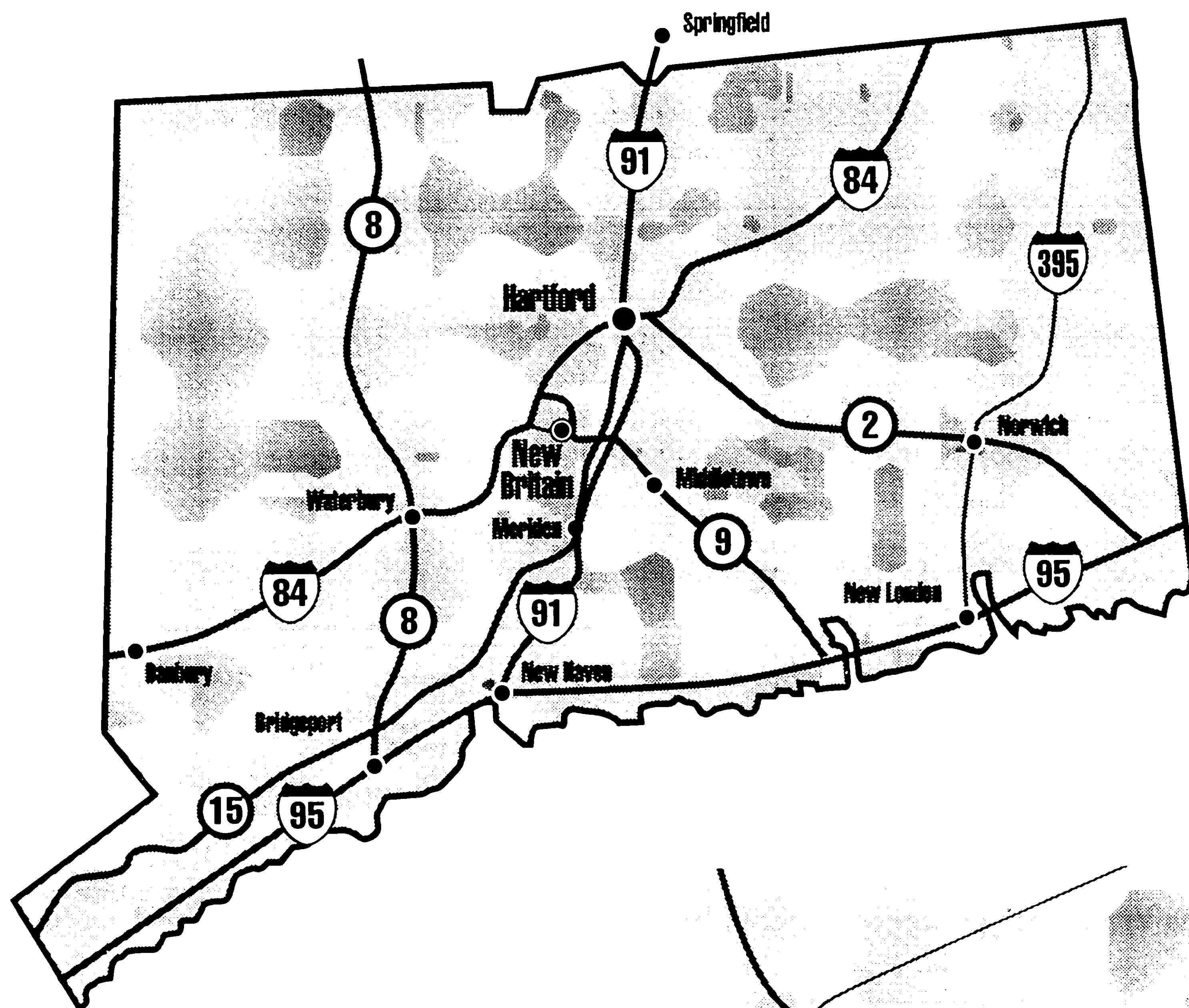
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DIRECTIONS TO CENTRAL CONNECTICUT STATE UNIVERSITY

FROM THE NORTH

Take I-91 South to I-84 West to Exit 39A, to Rte. 9 South. Take Exit 29 off Rte. 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). As you proceed down the Exit 40 ramp, bear left at the first traffic light. At the next traffic light (facing Sears), turn right onto Route 71 South. The University is approximately three (3) miles away.



FROM THE SOUTHWEST

Take I-95 North to I-91 North to Exit 22 North to Rte. 9 North. Follow Rte. 9 to Exit 29, Cedar Street (Rte. 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 SOUTHEAST

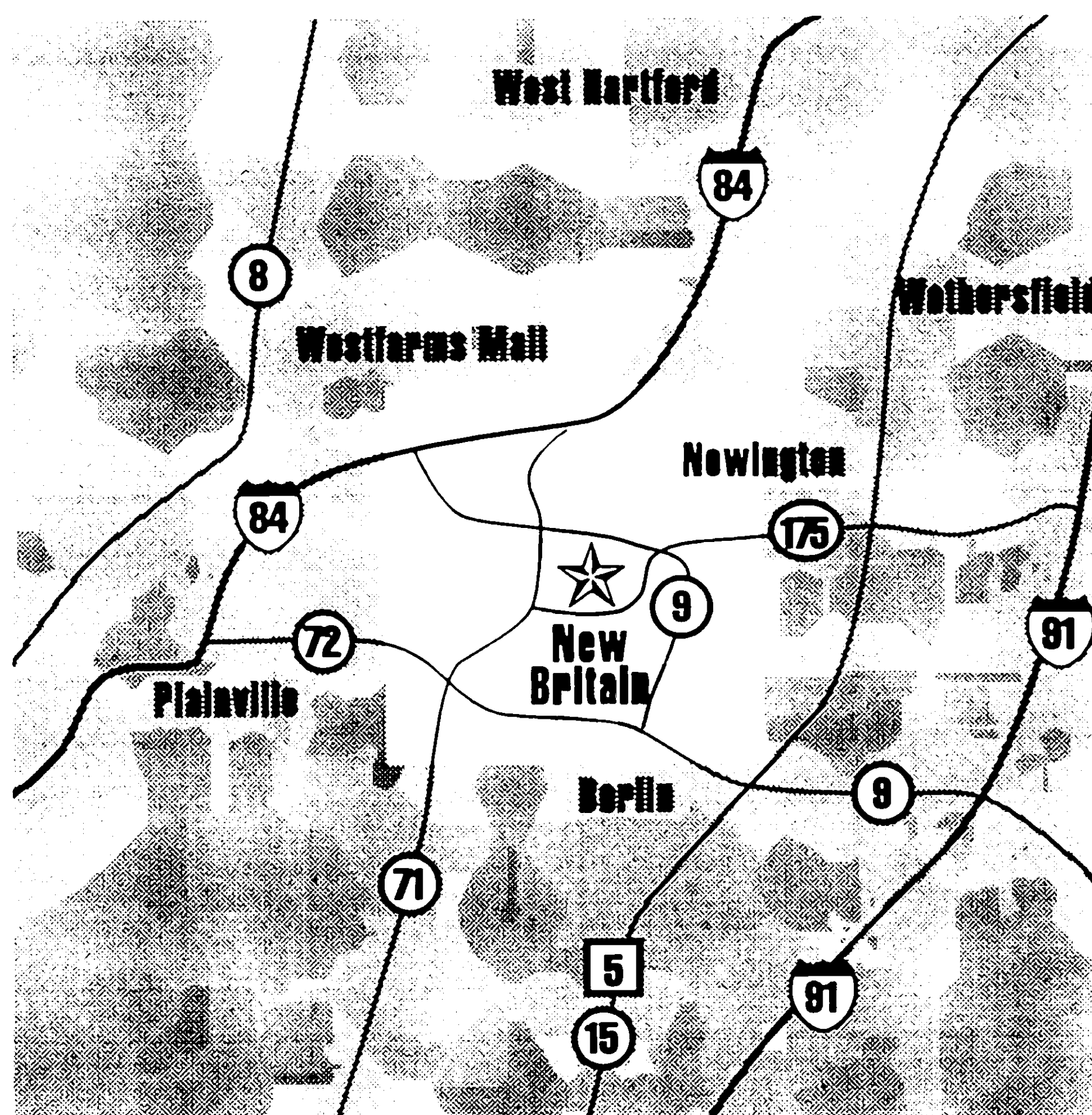
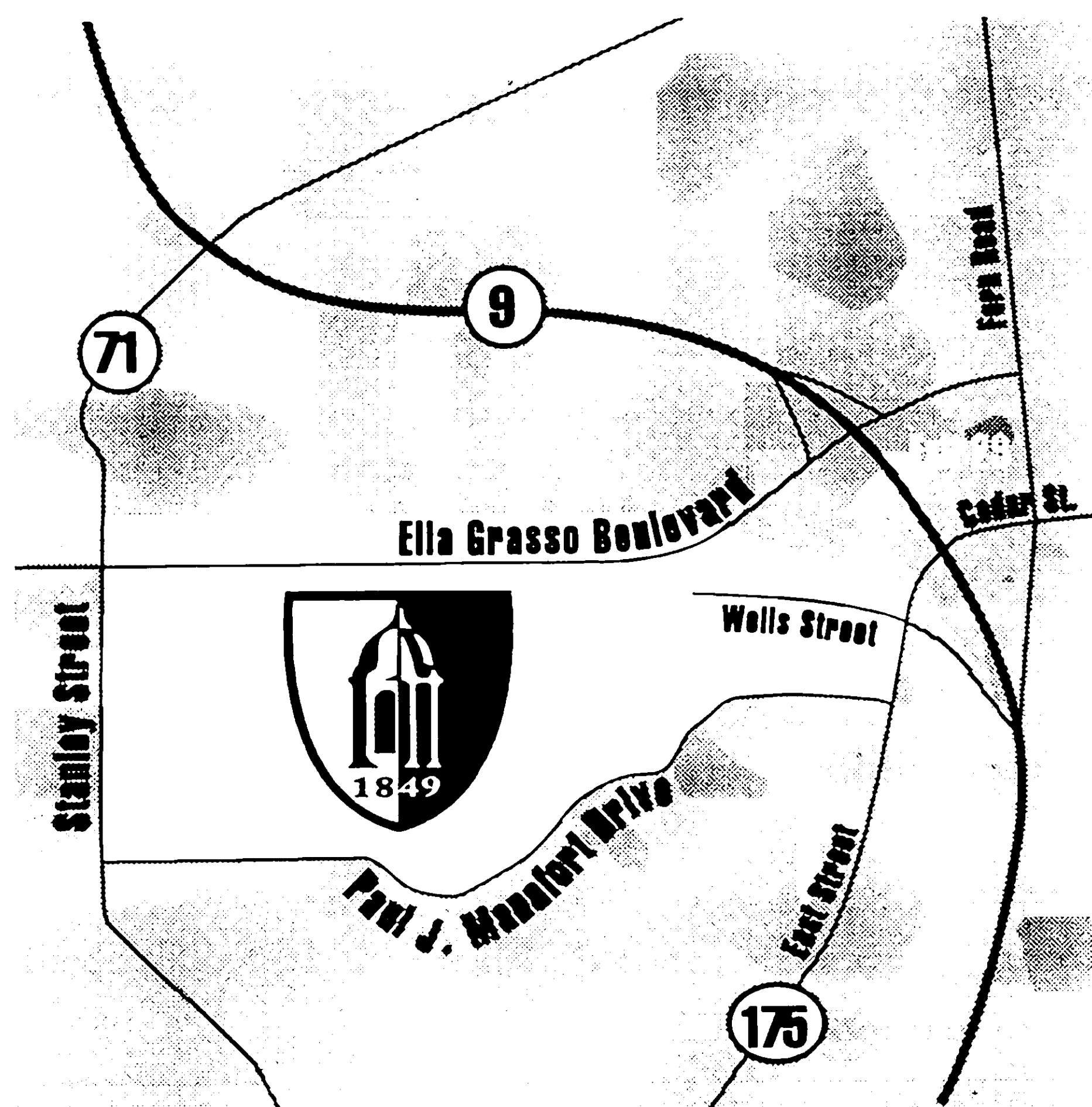
Take I-95 South to Rte. 9 North to Exit 29, Cedar Street (Rte. 175). At the traffic light at the end of the ramp, take a left turn to the second traffic light, and take a right turn onto Paul Manafort Drive to the University.

FROM THE EAST

Take I-84 West to Exit 39A to Rte. 9 South. Take Exit 29 off of Rte. 9 to Ella Grasso Boulevard and take a right turn to the University. *Alternate Route:* Take I-84 West to Exit 40, (Corbins Corner). As you proceed down the Exit 40 ramp, bear left at the first traffic light. At the next traffic light (facing Sears), turn right onto Route 71 South. The University is approximately three (3) miles away.

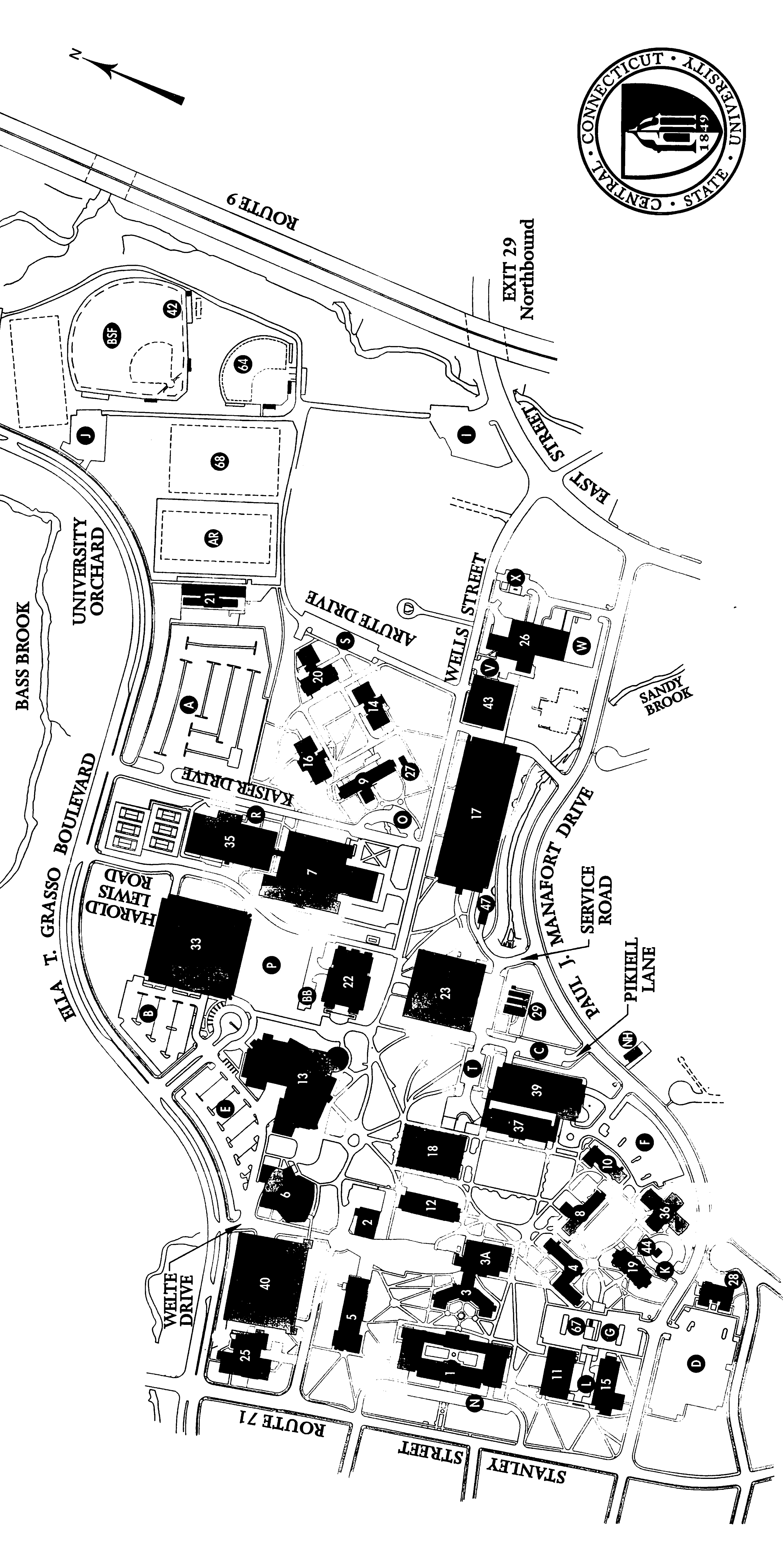
FROM THE WEST

Take I-84 East to Exit 39A, to Rte. 9 South. Take Exit 29 off of Rte. 9 South to Ella Grasso Boulevard and take a right turn to the University. *Alternate Route:* Take I-84 East to Exit 35, Rte. 72 East (New Britain exit). Follow Rte. 72 East to Rte. 9 North and take Exit 29 to Cedar Street (Rte. 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.



C C S U C A M P U S U M A P

- | | | |
|-----------------------------|---------------------------------------|-----------------------------|
| 1 Lawrence J. Davidson Hall | 37 Robert C. Vance Academic Center | O Samuel J. May Lot |
| 2 Power House | 39 South Parking Garage | P Library Lot* |
| 3 Marcus White Hall | 40 West Parking Garage | R Kaiser Annex Lot |
| 3A Marcus White Annex | 42 Balf-Savin Field/Baseball Pressbox | S Vance Hall Reserve Lot* |
| 4 Clarence Carroll Hall | 43 Energy Center | T Memorial Hall Lot |
| 5 Henry Barnard Hall | 44 South Pump House | W East Hall Lower Lot |
| 6 Herbert D. Welte Hall | 47 East Pump House | X Receiving (Gas Pump Lot) |
| 7 Harrison J. Kaiser Gym | 64 Softball Field/Pressbox | Y Barbour Road Lot |
| 8 Catherine Beecher Hall | 68 Soccer Field | 17 East Parking Garage* |
| 9 Samuel J. May Hall | AR Arute Field | 33 North Parking Garage* |
| 10 Seth North Hall | BSF Balf-Savin Fields | 39 South Parking Garage |
| 11 Emma Hart Willard Hall | NH Newman House | 40 West Parking Garage* |
| 12 Maria Sanford Hall | | |
| 13 Student Center | | * indicates student parking |
| 14 Robert E. Sheridan Hall | | |
| 15 Frank DiLoreto Hall | | |
| 16 Thomas A. Gallaudet Hall | | |



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